CITY OF MILWAUKIE, OREGON ARDENWALD SAFE PROJECT

OCHOCO ST PROJECT LOCATION-LOGUS RD KING RD HARRISON ST MONROE ST

PHASE I CIP2018-T42

PHASE I PROJECT DESCRIPTION

SIDEWALK CONSTRUCTION ON WEST SIDE OF SE 39TH AVENUE AND NORTH SIDE OF SE WAKE STREET. POROUS ASPHALT CONCRETE PAVING ON EXISTING RIGHT OF WAY PEDESTRIAN PATH CONNECTING SE WAKE STREET TO SE OLSEN STREET.

PROJECT MANAGER	
NAME:	JENNIFER GARBELY, P.E.
TITLE:	ASSISTANT CITY ENGINEER
PHONE NUMBER:	503-786-7609
EMAIL ADDRESS:	GARBELYJ@MILWAUKIEOREGON.G
ENGINEER	
NAME:	ELIZABETH BRITELL, P.E.
TITLE:	CIVIL ENGINEER
PHONE NUMBER:	503-786-7602
EMAIL ADDRESS:	BRITELLB@MILWAUKIEOREGON.GC
MILWAUKIE INSPECT	
PHONE NUMBER:	1-888-299-2821
WEBSITE:	BUILDINGPERMITS.OREGON.GOV
MILWAUKIE OPERATI	ONS
NAME:	EMERGENCY ON-CALL
PHONE NUMBER:	503-348-8833
PORTLAND GENERAL	ELECTRIC
CONTACT NAME:	TOBY JONES
PHONE NUMBER (E	MERGENCY): 503-464-7777
PHONE NUMBER (S	SERVICE): 503-736-5404
CELL NUMBER:	503-523-7131
NORTHWEST NATURA	AL
CONTACT NAME:	NINA CARLSON
PHONE NUMBER:	503-226-4211
CENTURY LINK	
CONTACT NAME:	SCOTT MILLER
PHONE NUMBER:	503-242-4144
CELL NUMBER:	503-754-7289
COMCAST	
CONTACT NAME:	MATTHEW BRAVO
PHONE NUMBER:	503-813-0576
CELL NUMBER:	503-351-9311
HEET #	SHEET TITLE
	COVER
/2	CONSTRUCTION NOTES
JRVEY	SHEET 1 OF 3
JRVEY	SHEET 2 OF 3
JRVEY	SHEET 3 OF 3
R1	TRAFFIC CONTROL
R2	TRAFFIC CONTROL
SC1	ESC COVER
SC2	ESC NOTES



CITY OF MILWAUKIE
ENGINEERING DEPARTMENT
6101 SE JOHNSON CREEK BLVD
MILWAUKIE, OR 97206
PHONE (503) 786-7600
FAX (503) 774-8236

LEGEND

EXISTING		PROPOSED	
	SANITARY SANITARY MANHOLE		
——————————————————————————————————————	OVERHEAD POWER POWER POLE STORM		
	DRYWELL MANHOLE CATCH BASIN MAILBOX SIGN TREE		DRYWELL MANHOLE CATCH BASIN MAILBOX SIGN TREE
		— SAW———————————————————————————————————	CONCRETE ASPHALT SAWCUT

ABBREVIATIONS

ACP ASPHALT CONCRETE PAVEMENT ADA AMERICANS WITH DISABILITIES ACT APPX APPROXIMATELY BES BUREAU OF ENVIRONMENTAL SERVICES BMP BEST MANAGEMENT PRACTICE DEQ OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY DTL DETAIL ESC EROSION AND SEDIMENT CONTROL F/C FACE OF CURB MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION RW RIGHT-OF-WAY SHT SHEET SW STORMWATER TM OREGON STANDARD DRAWING TRAFFIC SECTION		
APPX BES BUREAU OF ENVIRONMENTAL SERVICES BMP BEST MANAGEMENT PRACTICE DEQ OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY DTL DETAIL ESC EROSION AND SEDIMENT CONTROL F/C FACE OF CURB MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD DRAWING ROADWAY SECTION RD R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	ACP	ASPHALT CONCRETE PAVEMENT
BES BUREAU OF ENVIRONMENTAL SERVICES BMP BEST MANAGEMENT PRACTICE DEQ OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY DTL DETAIL ESC EROSION AND SEDIMENT CONTROL F/C FACE OF CURB MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	ADA	AMERICANS WITH DISABILITIES ACT
BMP BEST MANAGEMENT PRACTICE DEQ OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY DTL DETAIL ESC EROSION AND SEDIMENT CONTROL F/C FACE OF CURB MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	APPX	APPROXIMATELY
DEQ OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY DTL DETAIL ESC EROSION AND SEDIMENT CONTROL F/C FACE OF CURB MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	BES	BUREAU OF ENVIRONMENTAL SERVICES
DTL DETAIL ESC EROSION AND SEDIMENT CONTROL F/C FACE OF CURB MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	BMP	BEST MANAGEMENT PRACTICE
ESC EROSION AND SEDIMENT CONTROL F/C FACE OF CURB MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	DEQ	OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
F/C FACE OF CURB MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	DTL	DETAIL
MIN MINIMUM NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	ESC	EROSION AND SEDIMENT CONTROL
NOM NOMINAL OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	F/C	FACE OF CURB
OSD OREGON STANDARD DRAWING OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	MIN	MINIMUM
OSSC OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	NOM	NOMINAL
RD OREGON STANDARD DRAWING ROADWAY SECTION R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	OSD	OREGON STANDARD DRAWING
R/W RIGHT-OF-WAY SHT SHEET SW STORMWATER	OSSC	OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION
SHT SHEET SW STORMWATER	RD	OREGON STANDARD DRAWING ROADWAY SECTION
SW STORMWATER	R/W	RIGHT-OF-WAY
0.	SHT	SHEET
TM OREGON STANDARD DRAWING TRAFFIC SECTION	SW	STORMWATER
	TM	OREGON STANDARD DRAWING TRAFFIC SECTION



BCB	6/12/2018
BCB	6/12/2018
DESIGNED	DATE
BCB	6/12/2018
BCB	6/12/2018
DRAFTED	DATE
PP	7/10/2018
CHECKED	DATE
CLE	7/12/2018
APPROVED	DATE
NO. DATE	BY REVISIONS

Oregon law requires contractors to follow rules adopted by the Oregon

through 952-001-0090. Contractors may obtain copies of the rules by

calling the Oregon Utility Notification Center at 503-232-1987.

Utility Notification Center. Those rules are set forth in OAR 952-001-0010

PROJECT MAP

Scale: N.T.S.



Know what's **below**.

Call before you dig.

ESC3

CP1 CP2

CP3

CP4

DT2

DT3

DT4

DT5



ESC CONSTRUCTION PLAN

PEDESTRIAN PATH PLAN

CORNER DETAIL

DETAILS

DETAILS

DETAILS

DETAILS

DETAILS DETAILS

SE WAKE ST SIDEWALK PLAN

SE 39TH AVE SIDEWALK PLAN

6101 SE JOHNSON CREEK BLVD.

MILWAUKIE, OR 97206

PHONE: 503-786-7600
FAX: 503-774-8236

SAFE - ARDENWALD

CIVIL

X2018-T42 CV - COVER

FAX: 503-774-8236 PROJECT NO.: CIP2018T42

CONTRACT NO.:

TE: 7/19/2018

SHEET NO.:

CV1

GENERAL REQUIREMENTS NOTES

- 1. THE LOCATION AND DESCRIPTION OF UTILITIES SHOWN ARE COMPILED FROM AVAILABLE RECORDS AND FIELD SURVEYS. THE CITY AND UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY NOR THE COMPLETENESS OF SUCH RECORDS.
- 2. THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES IN THE PLANS. WHEN ERRORS, OMISSIONS, OR DISCREPANCIES ARE FOUND, PROJECT DESIGNER SHALL BE NOTIFIED. WORK PERFORMED BY THE CONTRACTOR AS A RESULT OF THE ERROR, OMISSION, OR DISCREPANCY IN THE PLANS SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE WHEN SUCH ERROR, OMISSION, OR DISCREPANCY HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE PROJECT DESIGNER.
- 3. THE CONTRACTOR SHALL HAVE AT ALL TIMES ON-SITE. THE APPROVED CONSTRUCTION PLANS & SPECIAL SPECIFICATIONS. CITY OF MILWAUKIE STANDARD SPECIFICATIONS & STANDARD PLANS, AND ALL OTHER APPLICABLE SPECIFICATIONS BOOKS
- 4. CONTRACTOR SHALL COMPLY WITH THE CURRENT EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. IN ITS ENTIRETY.
- 5. THE CONTRACTOR SHALL REMOVE ALL MATERIALS EXCAVATED FROM WORK IN THE RIGHT—OF—WAY AND DISPOSE AT A PROPER LANDFILL.
- 6. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF MILWAUKIE ENGINEERING DEPARTMENT PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL PROVED 2 WEEKS NOTICE TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- 7. CONTRACTOR SHALL CALL CITY OF MILWAUKIE INSPECTION LINE 24-HOURS IN ADVANCE TO SCHEDULE INSPECTION FOR THE FOLLOWING WORK:
 - PUBLIC UTILITY EXCAVATION
 - STORM FACILITY STRUCTURES INSTALLATION AND FORMS
 - STORM FACILITY BACKFILL
 - STORM FACILITY PLANTINGS
 - PUBLIC UTILITY INSTALLATION PUBIC UTILITY CONNECTIONS
 - STREET SUB-GRADE
 - STREET BASE AGGREGATE
 - STREET PAVEMENT INSTALLATION
 - CURB & SIDEWALK FORMS
 - FINAL INSPECTION • PUBLIC UTILITY TESTING
- 8. ANY LANDSCAPING/TREES DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED IN CONFORMANCE WITH THE CITY OF MILWAUKIE STANDARDS.
- 9. CONTRACTOR SHALL NOT USE THE PUBLIC RIGHT OF WAY FOR STORAGE OF EQUIPMENT, MATERIALS, CONSTRUCTION TRAILERS, AND CONSTRUCTION VEHICLES UNLESS OTHERWISE APPROVED.
- 10. IT IS THE OBLIGATION OF THE CONTRACTOR TO OBTAIN WRITTEN APPROVAL FROM PRIVATE PROPERTY OWNERS FOR USE OF PRIVATE PROPERTY FOR CONSTRUCTION STAGING AND TO RESTORE PRIVATE PROPERTY TO A CONDITION SATISFACTORY TO PROPERTY OWNER UPON COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE A COPY OF ALL AGREEMENTS SIGNED WITH PRIVATE PROPERTY OWNERS.
- 11. PRIOR TO FINAL ACCEPTANCE AND FINAL PAYMENT, CONTRACTOR SHALL SUBMIT AN APPROVED SET OF "AS CONSTRUCTED" DRAWINGS TO THE CITY OF MILWAUKIE ENGINEERING DEPARTMENT SHOWING ANY CHANGES FROM THE ORIGINAL PLAN. THE CONTRACTOR SHALL KEEP A COMPLETE SET OF "AS BUILTS" ON SITE THAT MUST BE KEPT UP TO DATE AT ALL TIMES AND AVAILABLE FOR CITY INSPECTION.

12. CONTRACTOR SHALL INSTALL, UTILIZE, AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL DEVICES IN 3. ASPHALT CONCRETE SHALL BE COMPACTED TO OSSC STANDARDS. ACCORDANCE WITH THE EROSION PREVENTION & SEDIMENT CONTROL NOTES AND DETAILS.

UTILITY NOTES

- 1. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THESE REQUIREMENTS ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0100. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS AND NOT MORE THAN TEN BUSINESS DAYS PRIOR TO AN EXCAVATION.
- 2. UTILITY LOCATIONS SHALL BE VERIFIED BY OREGON UTILITIES NOTIFICATION CENTER IMMEDIATELY PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UTILITY LOCATE MARKINGS FOR THE DURATION OF THE PROJECT. AND SHALL BE RESPONSIBLE FOR LOCATING NEW UTILITIES PRIOR TO CITY ACCEPTANCE.
- 3. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. THE UTILITY OWNER SHALL BE NOTIFIED IN THE EVENT OF DAMAGE. REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
- 4. FOR ANY EXISTING UNDERGROUND UTILITY CONFLICTING WITH THE PROPOSED WORK DESCRIBED HEREIN, CONTRACTOR SHALL NOTIFY CITY STAFF OF THE CONFLICTS.
- 5. UTILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION AND COORDINATION PURPOSES ONLY AND ARE NOT AUTHORIZED FOR INSTALLATION UNDER THE PUBLIC STREET IMPROVEMENT PERMIT, UTILITY COMPANIES ARE REQUIRED TO SECURE SEPARATE UTILITY PERMITS FROM THE CITY FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 6. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. ABANDONED UTILITIES SHALL BE VERIFIED BY CITY STAFF PRIOR TO REMOVAL. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES WITH CONCRETE A MINIMUM OF 2 FEET INTO THE PIPE.
- 7. ALL UTILITY CROSSINGS SHALL BE POTHOLED PRIOR TO EXCAVATION TO ALLOW FOR GRADE ADJUSTMENTS DUE TO ALIGNMENT CONFLICTS. THE USE OF BENDS TO AVOID ALIGNMENT CONFLICTS WILL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- 8. EXISTING UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES. WHEN SERVICE DISRUPTIONS ARE REQUIRED. CONTRACTOR SHALL NOTIFY AFFECTED BUSINESS OR RESIDENCE OF THE DATE AND DURATION OF THE DISRUPTION 24 HOURS IN ADVANCE OF THE DISRUPTION.
- 9. ALL UTILITY POINTS OF CONNECTION TO THE EXISTING SYSTEM SHALL BE POTHOLED PRIOR TO THE START OF NEW UTILITY INSTALLATION TO VERIFY ALIGNMENT, DEPTH, PIPE SIZE, AND PIPE MATERIAL. THE CONTRACTOR SHALL ARRANGE A PRE CONNECTION MEETING WITH THE CITY PRIOR TO THE START OF CONNECTION WORK.

STREET PAVEMENT NOTES

- 1. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, MANHOLES AND WATER METERS TO FINISHED STREET, DRIVEWAY, OR SIDEWALK GRADE.
- 2. THE CONTRACTOR SHALL SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT. SEAL ALL NEW PAVEMENT JOINTS WITH RUBBERIZED SEALANT.

PERMANENT SIGNAGE AND STRIPING NOTES

- 1. CONTRACTOR SHALL NOT REMOVE ANY STREET SIGNAGE WITHOUT PRIOR CITY APPROVAL.
- 2. CONTRACTOR SHALL REPLACE DAMAGED OR REMOVED PAVEMENT MARKINGS UPON COMPLETION OF FINAL PAVING.

CURB / SIDEWALK / DRIVEWAY NOTES

- 1. THE CONTRACTOR TO CONSTRUCT CURB, SIDEWALK, AND DRIVEWAYS IN ACCORDANCE WITH APPROVED OREGON STANDARD
- 2. CONTRACTOR TO PROTECT NEW CONCRETE FINISH. CONTRACTOR RESPONSIBLE FOR REMOVING, REPLACING, AND DISPOSING OF MATERIAL IF FINISH DOES NOT MEET ENGINEERING STANDARDS.

STORMWATER FACILITY NOTES

- 1. INSTALL TOPSOIL IN A MANNER THAT ENSURES ADEQUATE INFILTRATION. PLACE IN TWO EQUAL LIFTS. LIFTS SHOULD NOT BE COMPACTED, BUT RATHER PLACED IN A MANNER TO REDUCE EXCESSIVE ERIOSION OR SETTLEMENT. LIFTS MAY BE LIGHTLY WATERED TO ENCOURAGE NATURAL COMPACTION OR, IF NECESSARY, ROLLED WITH A WATER-FILLED LANDSCAPE ROLLER. SLIGHTLY OVERFILL THE FACILITY ABOVE PROPOSED FINISH GRADE TO ACCOMMODATE NATRUAL SETTLEMENT.
- 2. FOLLOWING SWALE CONSTRUCTION, PLANTING SHALL OCCUR BETWEEN SEPTEMBER 1 AND NOVEMBER 1. OR BETWEEN FEBRUARY 1 AND APRIL 15. IF CONSTRUCTION IS COMPLETED DURING THESE TIME PERIODS. PLANTING SHALL OCCUR IMMEDIATELY. IF CONSTRUCTION IS COMPLETED OUTSIDE OF THESE TIME PERIODS, TOPSOIL SHALL BE COVERED ENTIRELY WITH NORTH AMERICAN CREEN C25BN EROSION CONTROL FABRIC, SECURED WITH 12" WOODEN ECOSTAKES (18" ON-CENTER). PLANTS SHALL BE INSTALLED THROUGH HOLES CUT IN THE EROSION CONTROL FABRIC AND FABRIC SHALL BE RESTAKED SECURELY FOR STABILIZATION AND SOIL COVERAGE FOLLOWING PLANTING.
- 3. FACILITY AND SURROUNDING SITE WILL BE STABILIZED TO PREVENT MEASURABLE SEDIMENT FROM ERODING ON THE SITE AND INTO ADJACENT AREAS.

6/12/2018 DESIGNED 7/10/2018 DATE **CHECKED** 7/12/2018 APPROVED DATE BY REVISIONS





6101 SE JOHNSON CREEK BLVD.

MILWAUKIE, OR 97206

PHONE: 503-786-7600

SAFE - ARDENWALD CIVIL X2018-T42 CV - CONSTRUCTION NOTES

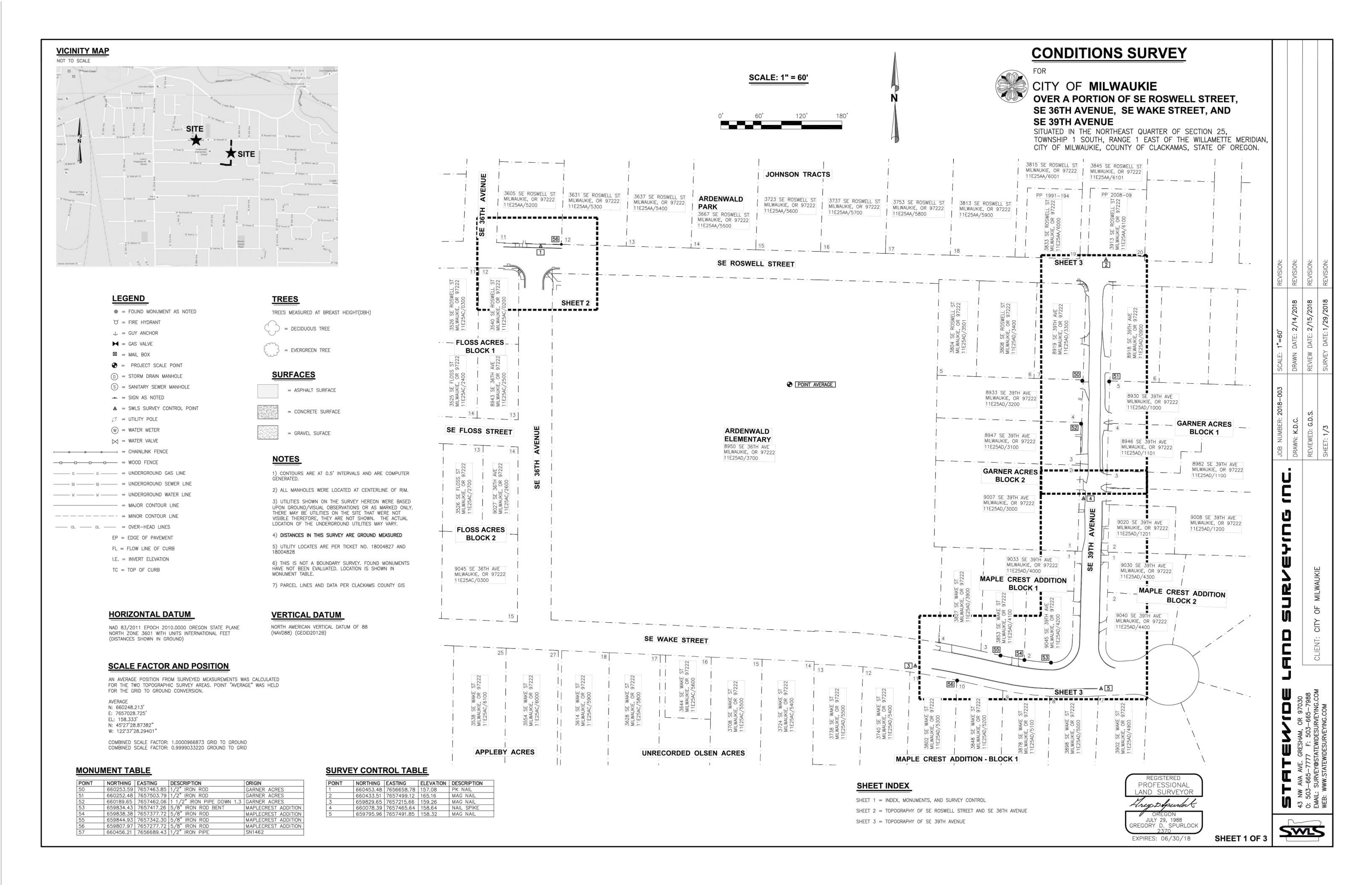
FAX: 503-774-8236 | PROJECT NO.: CIP2018T42

CONTRACT NO.:

7/19/2018

SHEET NO.:

CV2



SCALE: 1" = 10'

N

10' 20' 30'

CONDITIONS SURVEY

FOR



OVER A PORTION OF SE ROSWELL STREET, SE 36TH AVENUE, SE WAKE STREET, AND SE 39TH AVENUE

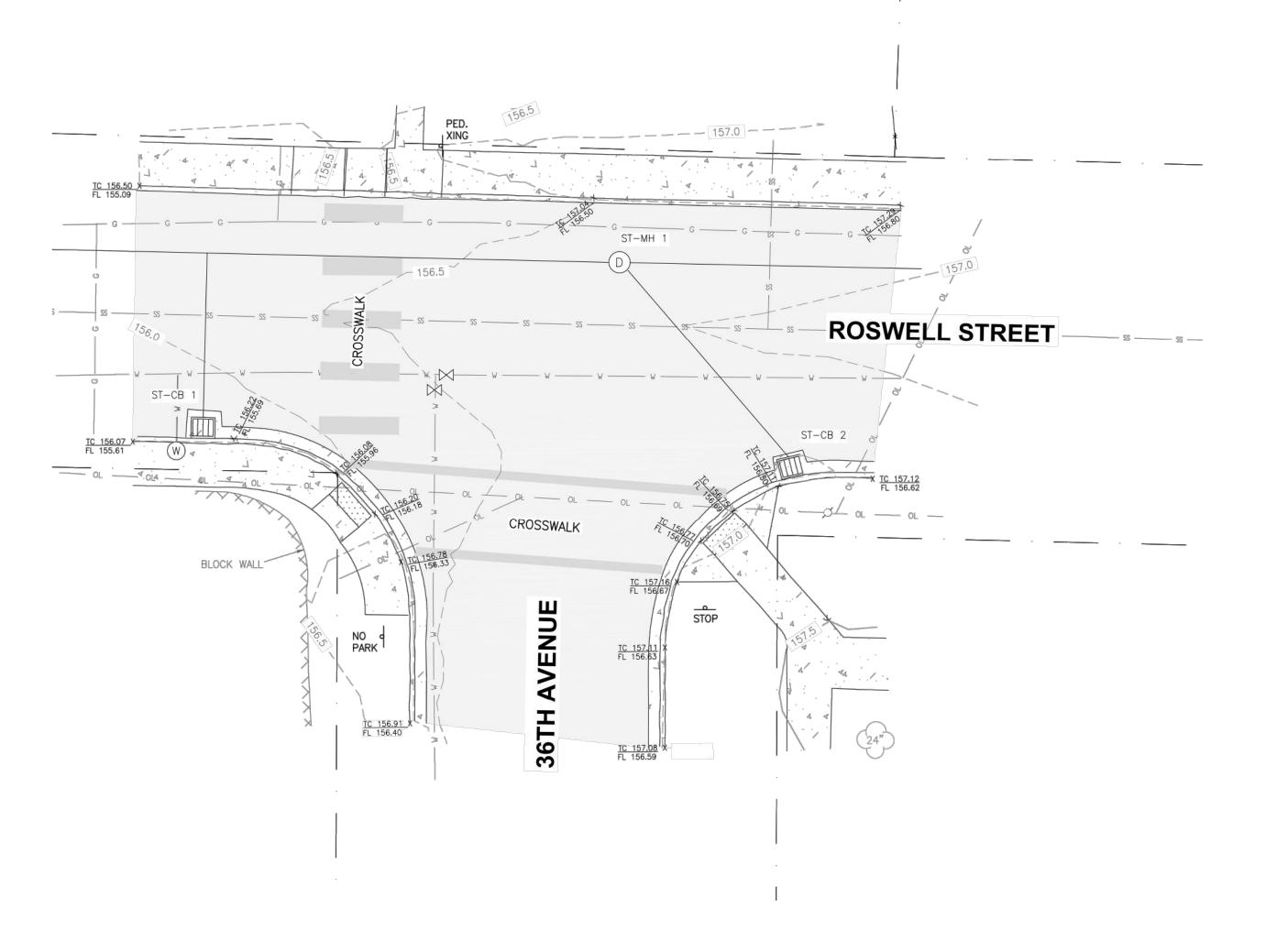
SITUATED IN THE NORTHEAST QUARTER OF SECTION 25, TOWNSHIP 1 SOUTH, RANGE 1 EAST OF THE WILLAMETTE MERIDIAN, CITY OF MILWAUKIE, COUNTY OF CLACKAMAS, STATE OF OREGON.

MANHOLES

ST-MH 1 RIM=156.66 12" IN(E) I.E.=147.91 10" IN(SE) I.E.=150.11 12" IN(SE) I.E.=148.81 12" OUT(W) I.E.=147.76

CATCH BASIN

ST-CB 1 RIM=155.60 8" OUT(N) I.E.=153.80 ST-CB 2 RIM=156.47 10" OUT(NW) I.E.=154.37

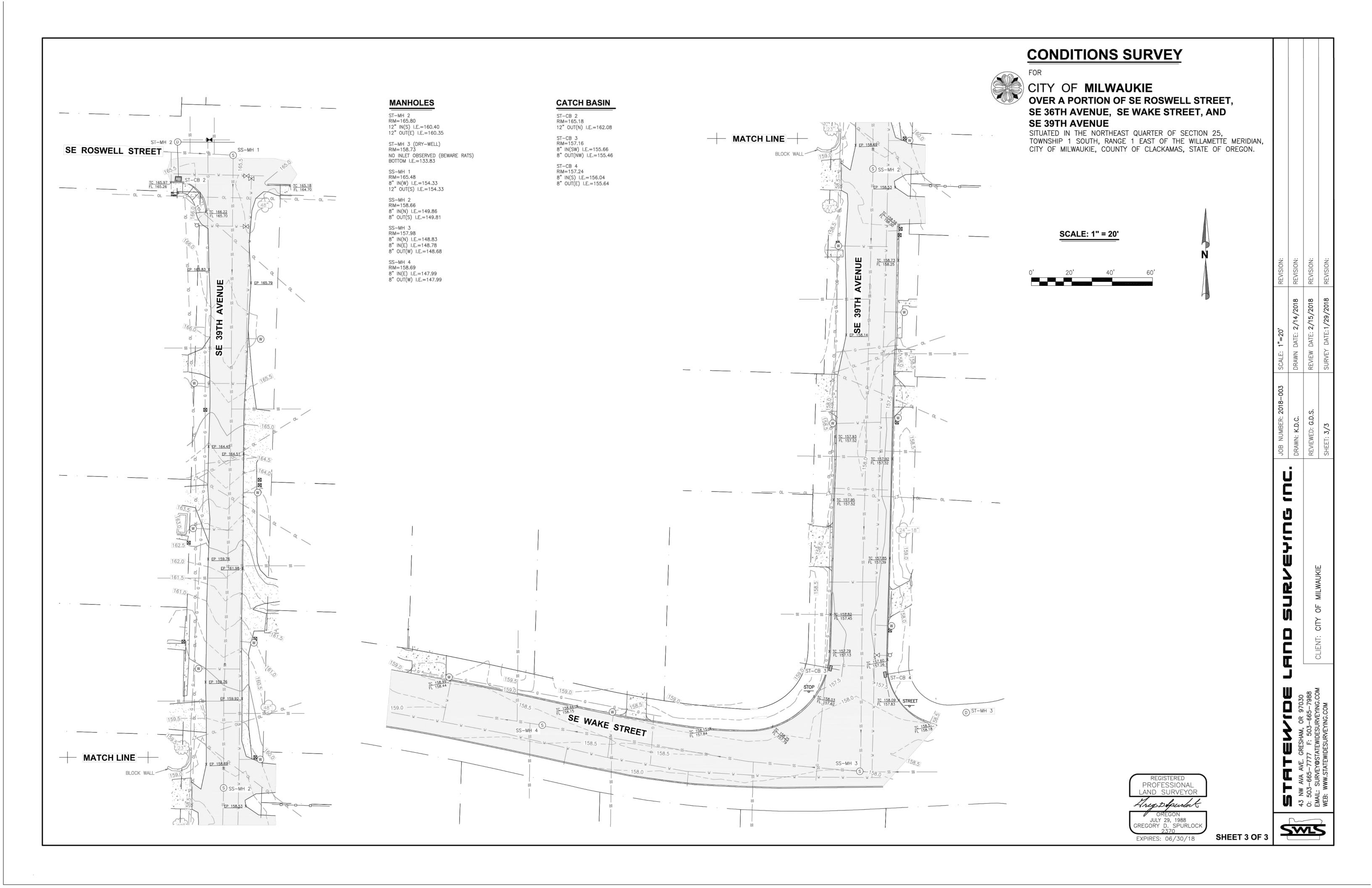


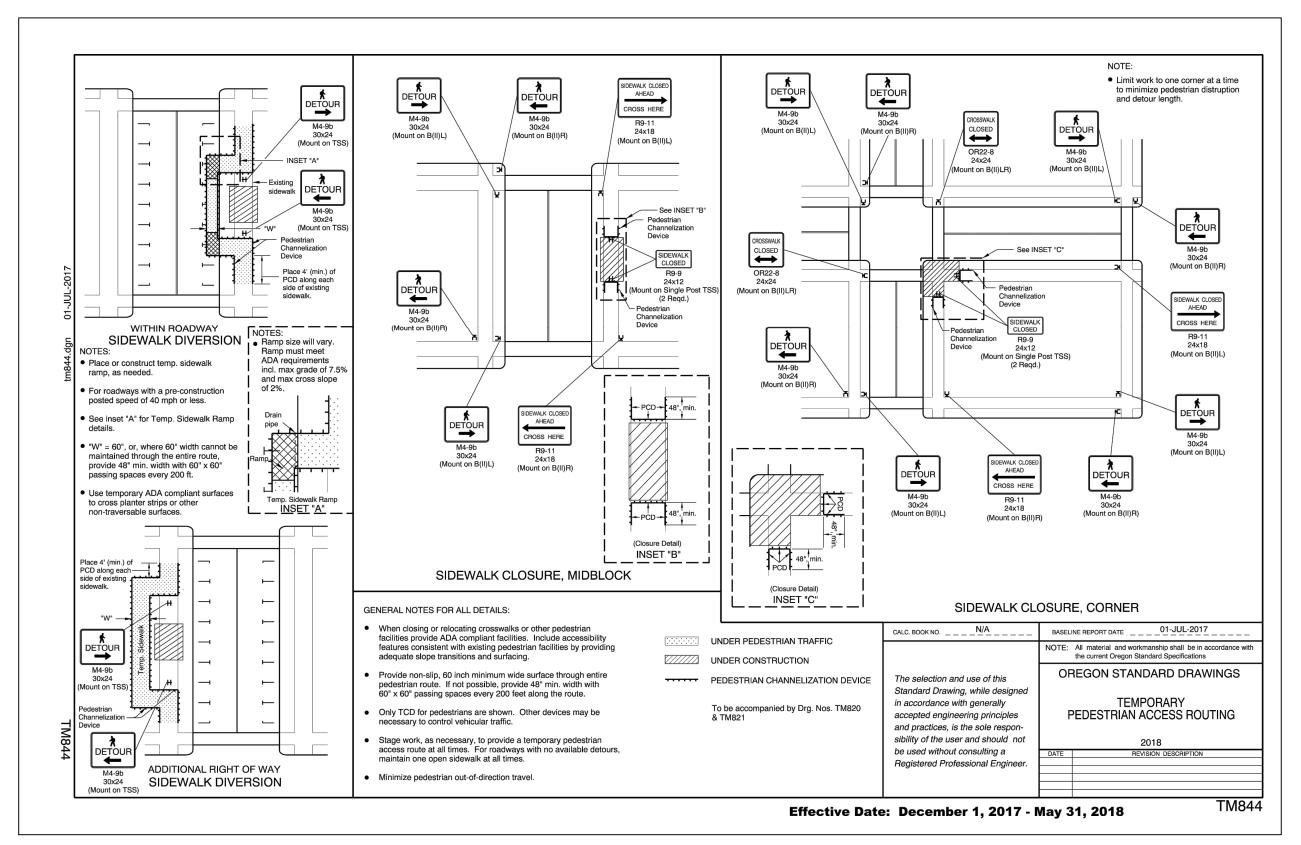
REGISTERED
PROFESSIONAL
LAND SURVEYOR

Areg Deputed
OREGON
JULY 29, 1988
GREGORY D. SPURLOCK
2370
EXPIRES: 06/30/18

SHEET 2 OF 3







OSD TM 844 scale: NTS

				BCB	6/12/2018 DATE
				DESIGNED	
				BCB	6/12/2018 DATE
				DRAFTED	
				PP	7/10/2018 DATE
				CHECKED	
				CLE	7/12/2018 DATE
				APPROVED	DATE
NO.	DATE	BY	REVISIONS		





6101 SE JOHNSON CREEK BLVD.

MILWAUKIE, OR 97206

SAFE - ARDENWALD

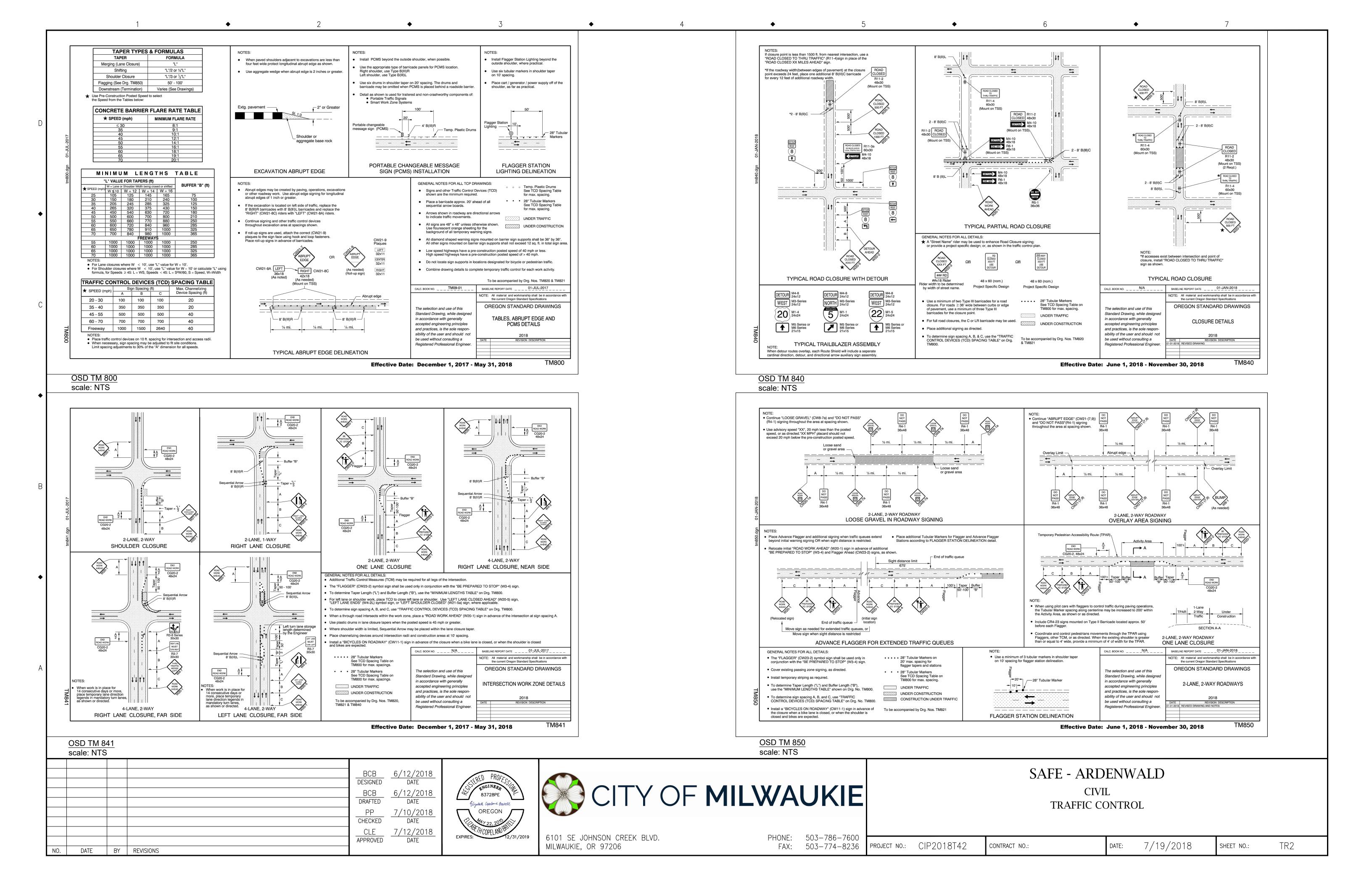
CIVIL

TRAFFIC CONTROL

TR1

TRAFFIC CONTROL NOTES

- 1. ALL TRAFFIC CONTROL MEASURES SHALL CONFORM WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND 2011 EDITION OF THE OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK (OTTCH) FOR OPERATIONS OF THREE DAYS OR LESS.
- 2. THESE TRAFFIC CONTROL PLANS ARE SCHEMATIC IN NATURE AND ARE CONSIDERED THE MINIMUM NECESSARY TO ADEQUATELY MANAGE TRAFFIC DURING CONSTRUCTION. CONTRACTOR TO PROVIDE FINAL TRAFFIC CONTROL PLAN BEFORE STARTING CONSTRUCTION.
- 3. EACH TRAFFIC CONTROL DETAIL IS TO BE IMPLEMENTED WITH THE ASSOCIATED TYPE OF WORK. FOR EXAMPLE, THE "LANE CLOSURE AT INTERSECTION WITH FLAGGING" DETAIL CAN BE FLIPPED TO USE ON ANY OF THE FOUR INTERSECTION CORNERS.
- 4. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN THROUGHOUT THE DURATION OF CONSTRUCTION.
- 5. ALL TRAVEL LANES, STREETS, SIDEWALKS, DRIVEWAYS, AND POINTS OF ACCESS SHALL BE OPENED TO VEHICULAR TRAFFIC AT THE END OF EACH WORK DAY.
- 6. ALL AREAS OF EXCAVATION WITHIN THE TRAVELED WAY SHALL BE TEMPORARILY COVERED WITH STEEL PLATES OR BACKFILLED AND TEMPORARILY SURFACED WITH ASPHALT CONCRETE PATCHING UNTIL FINAL PAVING.
- 7. CONTRACTOR SHALL PROVIDE VEHICULAR ACCESS TO SIDE STREETS AND DRIVEWAYS TO THE EXTENT PRACTICABLE. WHEN VEHICULAR ACCESS CANNOT BE PROVIDED, THE CONTRACTOR WILL NOTIFY THE AFFECTED BUSINESS / PROPERTY OWNER OF THE DATE AND DURATION OF THE INTERRUPTION, 14 DAYS IN ADVANCE OF THE CLOSURE.
- 8. TRAFFIC CONTROL DEVICE LOCATIONS ARE APPROXIMATE. FINAL SIGN LOCATION SHALL BE DETERMINED BY CITY ENGINEER IN THE FIELD.
- 9. TRAFFIC CONTROL SIGNS SHALL BE SIZED IN ACCORDANCE WITH CONVENTIONAL ROADWAY STANDARDS OF THE MUTCD.
- 10. TRAFFIC CONTROL SIGNS SHALL BE SPACED IN ACCORDANCE WITH THE MUTCD AND OTTCH FOR 25 MPH VEHICULAR SPEEDS.
- 11. LANE SHIFTING AND MERGER TAPERS SHALL HAVE A LENGTH NECESSARY TO ACCOMMODATE 25 MPH VEHICULAR SPEEDS.
- 12. CONE LOCATIONS ARE SCHEMATIC AND DENOTE LANE LOCATIONS, LANE TAPERS, AND WORK AREAS AND DO NOT INDICATE THE NUMBER OF CONES TO BE PLACED. CONTRACTOR WILL PLACE CONES IN A NUMBER SUFFICIENT TO ADEQUATELY DELINEATE AND DIRECT TRAFFIC AROUND WORK AREAS PER THE MUTCD.
- 13. THE MINIMUM VEHICLE TRAVEL LANE WIDTH SHALL BE A 10-FOOT CLEAR DISTANCE PERPENDICULAR TO THE DIRECTION OF TRAVEL .



OLSEN ST

SITE MAP not to scale

ARDENWALD SAFE PROJECT

PHASE I CIP2018-T42

EROSION AND SEDIMENT CONTROL PLANS

DEVELOPER:

CITY OF MILWAUKIE 6101 SE JOHNSON CREEK BLVD MILWAUKIE, OR 97206 PHONE: (503) 786-7600

PROPERTY LOCATION: ADDRESS: CITY OF MILWAUKIE

LATITUDE: 45°27'28.87382" LONGITUDE: 12°37'28.29401"

NARRATIVE DESCRIPTION:

EXISTING SITE CONDITIONS: SE 39TH AVENUE AND SE WAKE STREET ARE PAVED STREETS WITHOUT SIDEWALK IMPROVEMENTS.

DEVELOPED CONDITIONS:

SIDEWALK CONSTRUCTION ON WEST SIDE OF SE 39TH AVENUE AND NORTH SIDE OF SE WAKE STREET. POROUS ASPHALT CONCRETE PAVING ON EXISTING RIGHT OF WAY PEDESTRIAN PATH CONNECTING SE WAKE STREET TO SE OLSEN STREET.

ENGINEERING:

CITY OF MILWAUKIE 6101 SE JOHNSON CREEK BLVD PHONE: (503) 786-7600 CONTACT: ÈLIZÁBETH BRITELL, P.E.

SURVEY FIRM:

STATEWIDE LAND SURVEYING INC. 43 NW AVA AVE GRESHAM, OR 97030

PHONE: (503) 665-7777 CONTACT: GRÉGORY D. SPURLOCK

PROPERTY DESCRIPTION:

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE *CLEARING SEPTEMBER 31, 2018 *GRADING SEPTEMBER 31, 2018

*UTILITY INSTALLATION NOVEMBER 30, 2018 *STREET CONSTRUCTION MAY 15, 2018 *FINAL STABILIZATION NOVEMBER 31, 2018

TOTAL SITE AREA: 13,252 SF = 0.30 ACRES

TOTAL DISTURBED AREA: 8,317 SF = 0.19 ACRES

SITE SOIL CLASSIFICATION: QUATAMA LOAM, O TO 3 PERCENT SLOPES LATOURELL LOAM, 3 TO 8 PERCENT SLOPES

RECEIVING WATER BODIES: NA - SUBSURFACE INFILTRATION

BMP MATRIX FOR CONSTRUCTION PHASES

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

	CLEARING	MASS GRADING	UTILITY INSTALLATION	STREET CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT 1-MAY 31)
EROSION PREVENTION						
PRESERVE NATURAL VEGETATION	X			Χ		X
GROUND COVER						
HYDRAULIC APPLICATIONS						
PLASTIC SHEETING						
MATTING						
DUST CONTROL						
TEMPORARY/ PERMANENT SEEDING					X	X
BUFFER ZONE						
OTHER:						
SEDIMENT CONTROL						
SEDIMENT FENCE (PERIMETER)						
SEDIMENT FENCE (INTERIOR)						
STRAW WATTLES	X	X	Х	X	X	X
FILTER BERM						
INLET PROTECTION	X	X	X	X	X	X
DEWATERING						
SEDIMENT TRAP						
OTHER:						
RUN OFF CONTROL					•	
CONSTRUCTION ENTRANCE						
PIPE SLOPE DRAIN						
OUTLET PROTECTION						
SURFACE ROUGHENING						
CHECK DAMS						
OTHER:						
POLLUTION PREVENTION					•	
PROPER SIGNAGE						
HAZ WASTE MGMT						
SPILL KIT ON-SITE						
CONCRETE WASHOUT AREA						
OTHER:						

INSPECTION FREQUENCY

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY TWO (2) WEEKS.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

* HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL, INCLUDING THE INSPECTOR, TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.

* ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH 1200-CN PERMIT REQUIREMENTS.

* INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH 1200-CN PERMIT REQUIREMENTS.

* RETAIN A COPY OF THE ESC PLAN AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESC PLAN AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.

* CHANGES TO THE APPROVED ESC PLAN MUST BE SUBMITTED TO DEQ IN THE FORM OF AN ACTION PLAN.

SHEET INDEX

SHEET NO.	DESCRIPTION	
ESC1 ESC2 NA ESC3 ESC4	EROSION AND SEDIMENT CONTROL COVER SHEET EROSION AND SEDIMENT CONTROL PLAN NOTES CLEARING AND DEMOLITION EROSION AND SEDIMENT CONTROL PLAN GRADING, STREET, AND UTILITY CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN GRADING, STREET, AND UTILITY CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN	

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL _BCB_____

PERMITTEE'S SITE INSPECTOR:

CONTRACTOR TO PROVIDE: COMPANY NAME: PHONE: FAX: CONTACT NAME:

EMAIL:

DESCRIPTION OF EXPERIENCE: (LIST YEARS AND TYPE OF EXPERIENCE)

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE DEQ 1200-CN PERMIT. THE ESC PLAN AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-CN PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-CN PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.



DESIGNED DATE DRAFTED CHECKED DATE 7/12/2018 APPROVED DATE DATE BY REVISIONS





6101 SE JOHNSON CREEK BLVD. MILWAUKIE, OR 97206

PHONE: 503-786-7600 FAX: 503-774-8236 SAFE - ARDENWALD **EROSION CONTROL** ESC COVER

PROJECT NO.: CIP2018T42

CONTRACT NO.:

7/19/2018

SHEET NO .:

ESC1

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES

- 1. APPLY TEMPORARY AND PERMANENT SOIL STABILIZATION MEASURES ON ALL DISTURBED AREAS AS GRADING PROGRESSES. (SCH A.5.b.ii.6.)
- 2. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND FROM OCTOBER 1
 THROUGH MAY 31 EACH YEAR. (SCH A.7.a.i.)
- 3. DURING WET WEATHER PERIODS TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORK DAY IF RAINFALL IS FORECAST IN THE NEXT 24 HOURS. (SCH A.7.a.ii.)
- 4. ALL EROSION AND SEDIMENT CONTROLS NOT IN THE DIRECT PATH OF WORK MUST BE INSTALLED PRIOR TO ANY LAND DISTURBANCE. (SCH A.7.c.ii.)
- 5. PRESERVE EXISTING VEGETATION AND RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION (SCHA.7.c.iii.1)
- 3. ALL TEMPORARY SEDIMENT CONTROLS MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED. (SCH A.7.c.iii.3.)
- 7. SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION. (SCH A.7.d.i.(1))
- 8. ALL ACTIVE CATCH BASINS MUST HAVE SEDIMENT CONTROLS INSTALLED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. (SCH A.7.d.i.(2))
- . WATERTIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT IS TO DRAIN THE SOIL ON—SITE AT A DESIGNATED LOCATION USING APPROPRIATE BMP's; SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE. (SCH A.7.d.iii.3)
- 10. TEMPORARY STABILIZATION OR COVERING OF SOIL STOCKPILES MUST OCCUR AT THE END OF EACH WORK DAY OR OTHER BMP's MUST BE IMPLEMENTED TO PREVENT TURBID DISCHARGES TO SURFACE WATERS. (SCH A.7.e.ii.2.)
- 11. DEVELOP AND MAINTAIN ONSITE A WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURE. (SCH A.7.e.iii.3)
- 12. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL. (SCH A.7.e.iii.(2))
- 13. THE PERMITTEE MUST PROPERLY PREVENT AND MANAGE HAZARDOUS WASTE, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION. (SCH A.7.e.i.1 AND SCH A.7.e.ii.4)
- 14. SIGNIFICANT AMOUNTS OF SEDIMENT WHICH LEAVE THE SITE MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A REOCCURRENCE OF THE DISCHARGED WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIME FRAME. (SCH A.7.f.i.1)
- 15. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATERBODIES. DRY SWEEPING MUST BE USED TO CLEAN UP RELEASED SEDIMENTS. (SCH A.7.f.i.2)
- 16. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW THE MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE TAKEN IN THE APPLICATION OF FERTILIZERS WITHIN ANY WATER WAY RIPARIAN ZONE. (SCH A.7.f.i.3.)
- 17. SEDIMENT MUST BE REMOVED FROM BEHIND SEDIMENT FENCE WHEN IT HAS REACHED A HEIGHT OF 1/3 THE HEIGHT OF THE FENCE ABOVE THE GROUND, AND BEFORE FENCE REMOVAL. (SCH A.7.f.ii.1.)
- 18. SEDIMENT MUST BE REMOVED FROM BEHIND BIO BAGS AND OTHER BARRIERS WHEN IT HAS REACHED A HEIGHT OF TWO (2) INCHES AND BEFORE BMP REMOVAL. (SCH A.7.f.ii.2.)
- 19. CLEANING OF TRAPPED CATCH BASINS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT, AND AT COMPLETION OF PROJECT. (SCH A.7.f.ii.3.)
- 20. REMOVAL OF TRAPPED SEDIMENT IN A SEDIMENT BASIN OR SEDIMENT TRAP MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT, AND AT COMPLETION OF PROJECT. (SCH A.7.f.ii.3&4)
- 21. DEQ MUST APPROVE OF ANY TREATMENT SYSTEM AND OPERATIONAL PLAN THAT MAY BE NECESSARY TO TREAT CONTAMINATED CONSTRUCTION DEWATERING OR SEDIMENT AND TURBIDITY IN STORMWATER RUNOFF. (SCH A.7.f.iii.)
- 22. SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR THIRTY (30) DAYS OR MORE, THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD. (SCH A.8.a.)
- 23. SHOULD CONSTRUCTION ACTIVITIES CEASE FOR FIFTEEN (15) DAYS OR MORE ON ANY SIGNIFICANT PORTION OF A CONSTRUCTION SITE, TEMPORARY STABILIZATION IS REQUIRED FOR THAT PORTION OF THE SITE WITH STRAW, COMPOST, OR OTHER TACKIFIED COVERING THAT WILL PREVENT SOIL OR WIND EROSION UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCH A.8.b.)

LOCAL AGENCY-SPECIFIC EROSION CONTROL NOTES

- 1. ALL EROSION PREVENTION MEASURES SHALL BE IN PLACE, FUNCTIONAL, AND APPROVED IN ACCORDANCE WITH THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. ALL SOIL DISTURBING AND CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH MMC CHAPTER 16.28 EROSION CONTROL AND ANY APPLICABLE LOCAL. STATE. OR FEDERAL REQUIREMENTS.
- 2. ALTERNATE SEDIMENT CONTROLS MUST PROVIDE A DISCHARGE THAT IS CLEAN AND FREE OF SEDIMENT, SURFACTANTS, AND OTHER POLLUTANTS PRIOR TO ENTERING THE STORM SYSTEM. APPROVAL OF ALTERNATIVE SEDIMENT CONTROLS BY THE CITY OF MILWAUKIE WASTEWATER DIVISION MANAGER IS REQUIRED PRIOR TO INSTALLATION.
- 3. DUMPING OR DISPOSAL OF SPOIL MATERIALS INTO ANY STREAM CORRIDOR, WETLAND, SURFACE WATER, OR ON ANY PUBLIC OR PRIVATE PROPERTY NOT SPECIFIED FOR SAID PURPOSE IS PROHIBITED.
- 4. SEDIMENT AND POLLUTANTS SHALL NOT BE WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES. DRY SWEEPING SHALL BE IMPLEMENTED TO CLEAN UP CONSTRUCTION AREAS TO PREVENT RELEASE OF SEDIMENTS INTO THE STORM SYSTEM.
- DISPOSAL OF SEDIMENT LADEN WATER INTO THE WASTEWATER SYSTEM IS PROHIBITED, UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE CITY OF MILWAUKIE WASTEWATER DIVISION MANAGER. SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH AN APPROVED SEDIMENT CONTROL BMP PRIOR TO DISPOSAL INTO THE WASTEWATER SYSTEM.
- 6. SAWCUTTING SLURRY AND DEBRIS SHALL BE VACUUMED AND REMOVED FROM ALL IMPERVIOUS SURFACES. VACUUMED SAWCUTTING SLURRY SHALL BE PROPERLY DISPOSED OF AND NOT DISCHARGED INTO THE STORM SYSTEM.
- 7. AN AREA SHALL BE DESIGNATED FOR WASHING OUT CONCRETE TRUCKS SUCH THAT RUNOFF FROM WASHING ACTIVITIES ARE CONTAINED AND DO NOT LEAVE THE SITE OR ENTER THE STORM SYSTEM.
- 8. SWEEPING FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE WASHED TO THE STREET OR STORM SYSTEM. SWEEPING SHALL BE COLLECTED AND PROPERLY DISPOSED OF IN THE TRASH.
- 9. PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN OFF INTO THE STORM SYSTEM IS PROHIBITED.
- 10. TRACKING OF DIRT AND DEBRIS ONTO IMPERVIOUS SURFACES, SUCH AS STREETS AND PARKING LOTS, IS PROHIBITED.
 IMPERVIOUS SURFACES SHALL BE KEPT FREE OF DIRT AND DEBRIS AT ALL TIME IF IT CAN BE SPREAD BY TRAFFIC OR
 CAN ENTER THE STORM SYSTEM.
- 11. GRAVEL OR DIRT CURB RAMPS ARE PROHIBITED. ONLY WOOD STEP STYLE CURB RAMPS ARE ALLOWED.
- 12. UPON COMPLETION OF SITE RESTORATION AND APPROVAL FROM THE CITY OF MILWAUKIE ENGINEERING DIRECTOR, ALL TEMPORARY EROSION CONTROL MEASURES MAY BE REMOVED.
- 13. DRAINAGE FROM SPRINGS OR GROUNDWATER MUST BE ADDRESSED DURING CONSTRUCTION BY THE CONTRACTOR. DISCHARGE FROM GROUNDWATER ENCOUNTERED ON THE SITE MUST BE CLEAN OF SEDIMENT OR POLLUTANTS.
- 14. AREA SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCH, OR OTHER APPROVED MEASURE.
- 15. DATES OF IMPLEMENTATION OF WET WEATHER MEASURES ARE OCTOBER 1ST TO APRIL 30TH
- 16. MATERIAL SHALL NOT BE STOCKPILED ON PUBLIC STREETS OR IN THE RIGHT-OF-WAY LONGER THAN IMMEDIATE USE.
- 17. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED IN THE FIELD. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE CONTRACTOR MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT. NOTE: VEGETATED CORRIDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL.
- 18. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMP'S THAT MUST BE INSTALLED ARE A GRAVEL CONSTRUCTION ENTRANCE, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION AS SPECIFIED. THESE BMP'S MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- 19. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAT SEPTEMBER 1; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS WITH AN ESTABLISHED HEALTHY STAND OF GRASS OF 80% COVERAGE BY OCTOBER 1ST.
- 20. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP i.e. (FILTER BAG).
- 21. THE ESC PLAN MUST BE KEPT ON SITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT OR SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.

PRE-CONSTRUCTION, CLEARING AND DEMOLITION NOTES:

- ALL BASE ESC MEASURES MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE (LIST APPROVED BARRIERS).
- 3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE I THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
- 4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, (LIST APPROVED MEASURES), MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: (LIST CONTROL MEASURES).
- 6. ITEMS NOTED FOR REMOVAL OR DEMOLITION TO BE DISPOSED OF IN A MANNER THAT MEETS APPLICABLE STATE AND FEDERAL REGULATIONS.
- 7. INSTALLATION AND APPROVAL OF ALL TREE PROTECTION AND ESC MEASURES ARE NEEDED BEFORE CONSTRUCTION BEGINS.
- 3. UNDERGROUND AND OVERHEAD POWER LINES AND FRANCHISE UTILITIES ARE LOCATED WITHIN RIGHT—OF—WAY ADJACENT TO THE PROJECT SITE. COORDINATE WORK WITH THE UTILITY COMPANY.

TREE REMOVAL AND PRESERVATION NOTES:

- 1. CONTRACTOR SHALL INSTALL 4' HIGH ORANGE TREE PROTECTION FENCING AROUND ALL TREES TO REMAIN ON SITE DURING CONSTRUCTION. FENCING SHALL BE PLACED AT THE TREE DRIP LINE. COORDINATE TREE PROTECTION FENCING LOCATION WITH PROJECT ARBORIST.
- 2. INSTALLATION AND APPROVAL OF ALL TREE PROTECTION AND ESC MEASURES ARE NEEDED BEFORE CONSTRUCTION BEGINS.
- 3. TREE REMOVAL OPERATIONS SHALL NOT DAMAGE TREES TO BE SAVED.
- 4. ALL DEMOLITION AND TREE REMOVAL WITHIN THE TREE PROTECTION FENCING SHALL BE COMPLETED UNDER THE SUPERVISION OF THE PROJECT ARBORIST. NO REMOVAL OF ANY STRUCTURES OR TREES SHALL BE PERFORMED WITHOUT THE PROJECT ARBORIST ON SITE.

GRADING, STREET, AND UTILITY ESC CONSTRUCTION NOTES:

- SEED USE FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
- A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES.
- B. DWARF GRASS MIX (MIN 100 LB/AC)
 - 1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
- 2. CREEPING RED FESCUE (20% BY WEIGHT)
- C. STANDARD HEIGHT GRASS MIX (MIN 100 LB/AC)

 1. ANNUAL RYEGRASS (40% BY WEIGHT)
 - 2. TURF-TYPE FESCUE (60% BY WEIGHT)
- 2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK—WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN—OFF VELOCITY.
- 3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA HYDROSEEDING TO 2000 LBS/ACRES WITH AN ADDED TACKIFIER.
- 4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
- 5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
- 6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID—SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
- 7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
- 8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
- 10. SATURATED MATERIALS THAT ARE HAULED OFF—SITE MUST BE TRANSPORTED IN WATER—TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT—LADEN WATER.
- 11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50 FEET FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF CAPACITY.
- 12. SWEEPING FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
- 13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM
- 14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
- 15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.
- 16. CONTRACTOR TO PROTECT UICs AND DRYWELLS DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STRUCTURES.
- 17. AFTER OCTOBER 1ST, COVER AREAS AT FINAL GRADE WITH SEED/STRAW MULCH AT 4000 LBS/ACRE.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN MAPPED FROM FIELD SURVEY INFORMATION, OBSERVED ABOUT GROUND EVIDENCE AND GROUND MARKINGS BY OTHERS, AND EXISTING DRAWINGS SUPPLIED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED BUT DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

SAFE - ARDENWALD

EROSION CONTROL

ESC NOTES







6101 SE JOHNSON CREEK BLVD.
MILWAUKIE, OR 97206

PHONE: 503-786-7600 FAX: 503-774-8236

PROJECT NO.: CIP2018T42

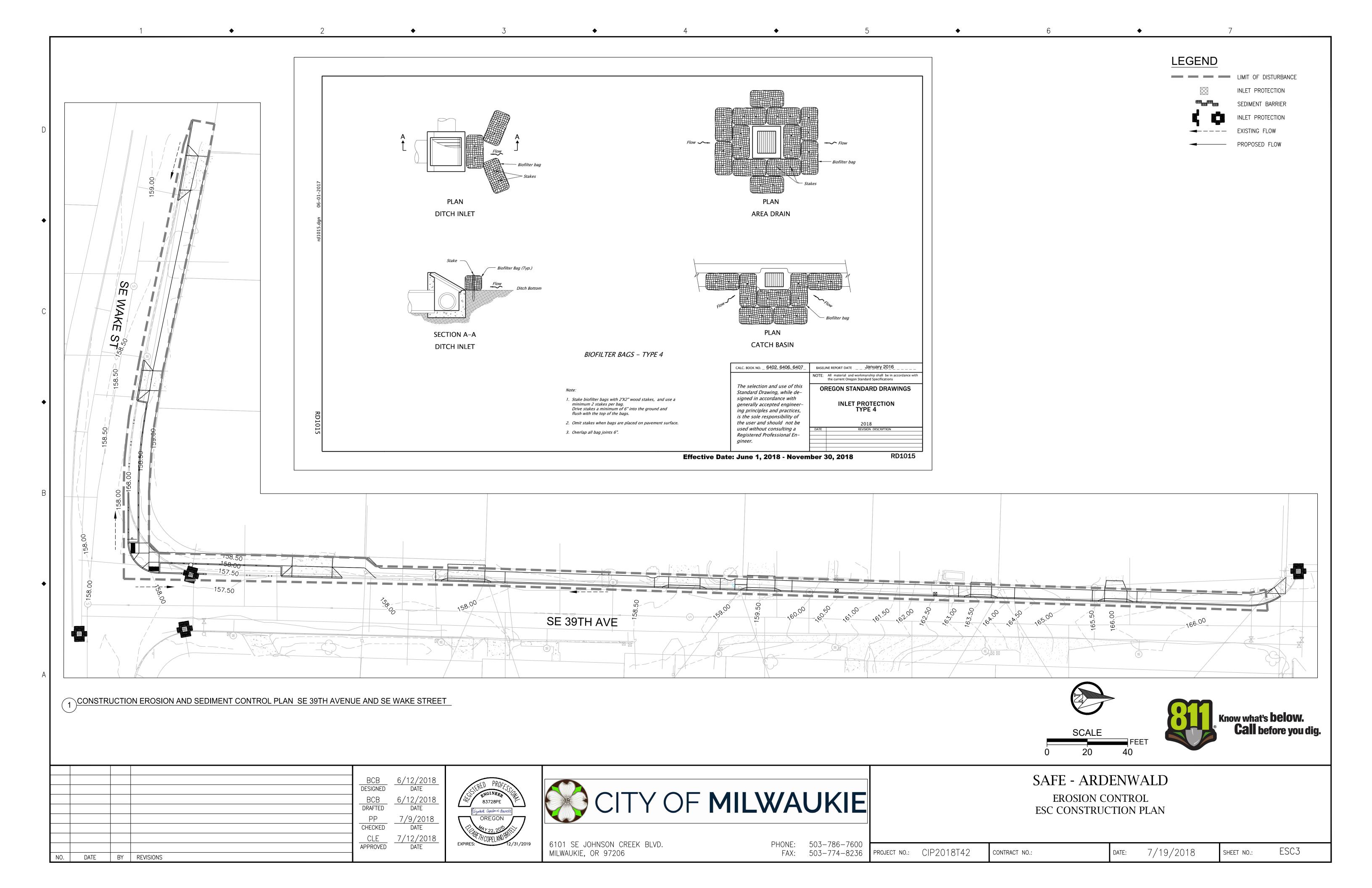
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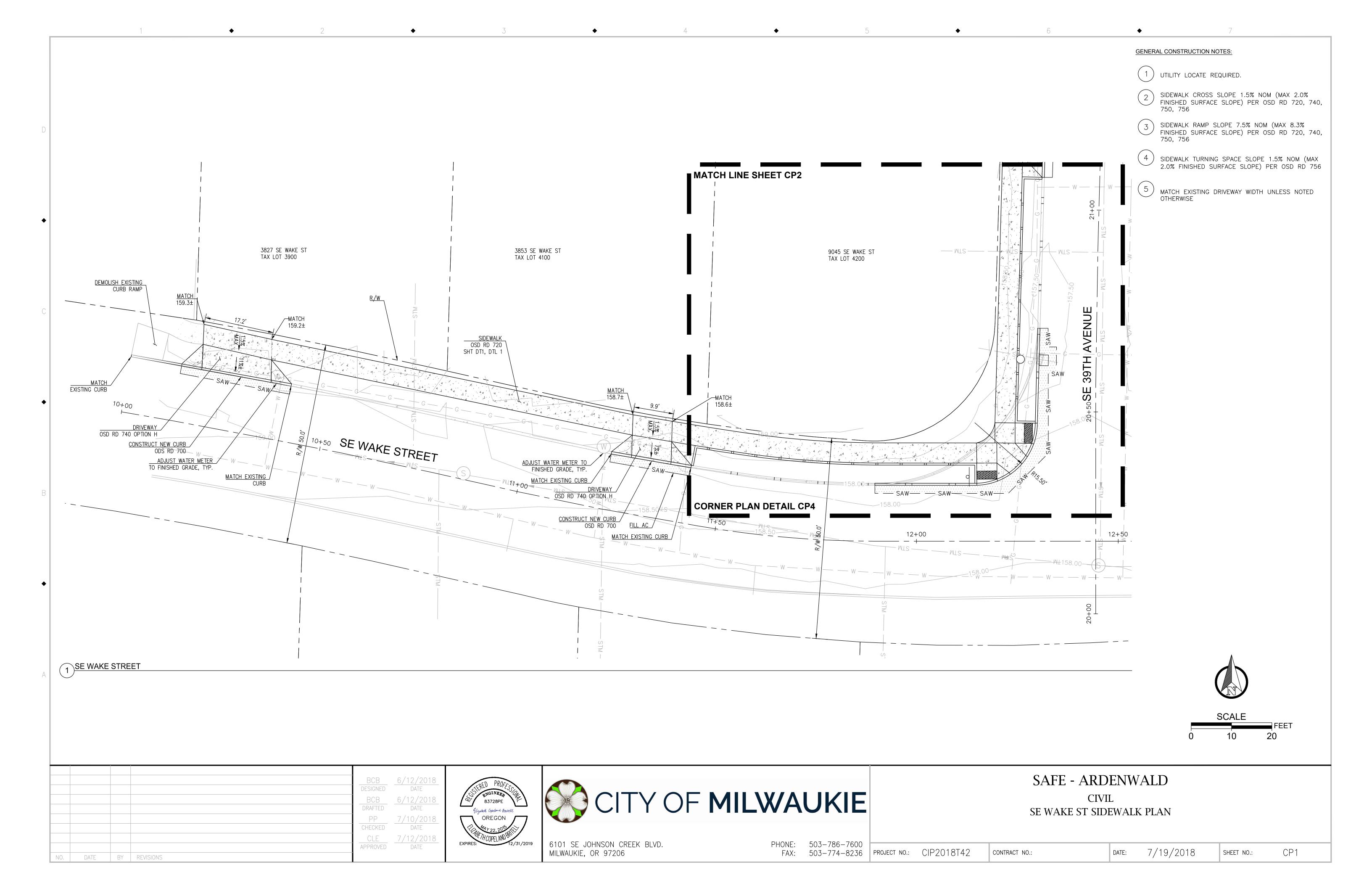
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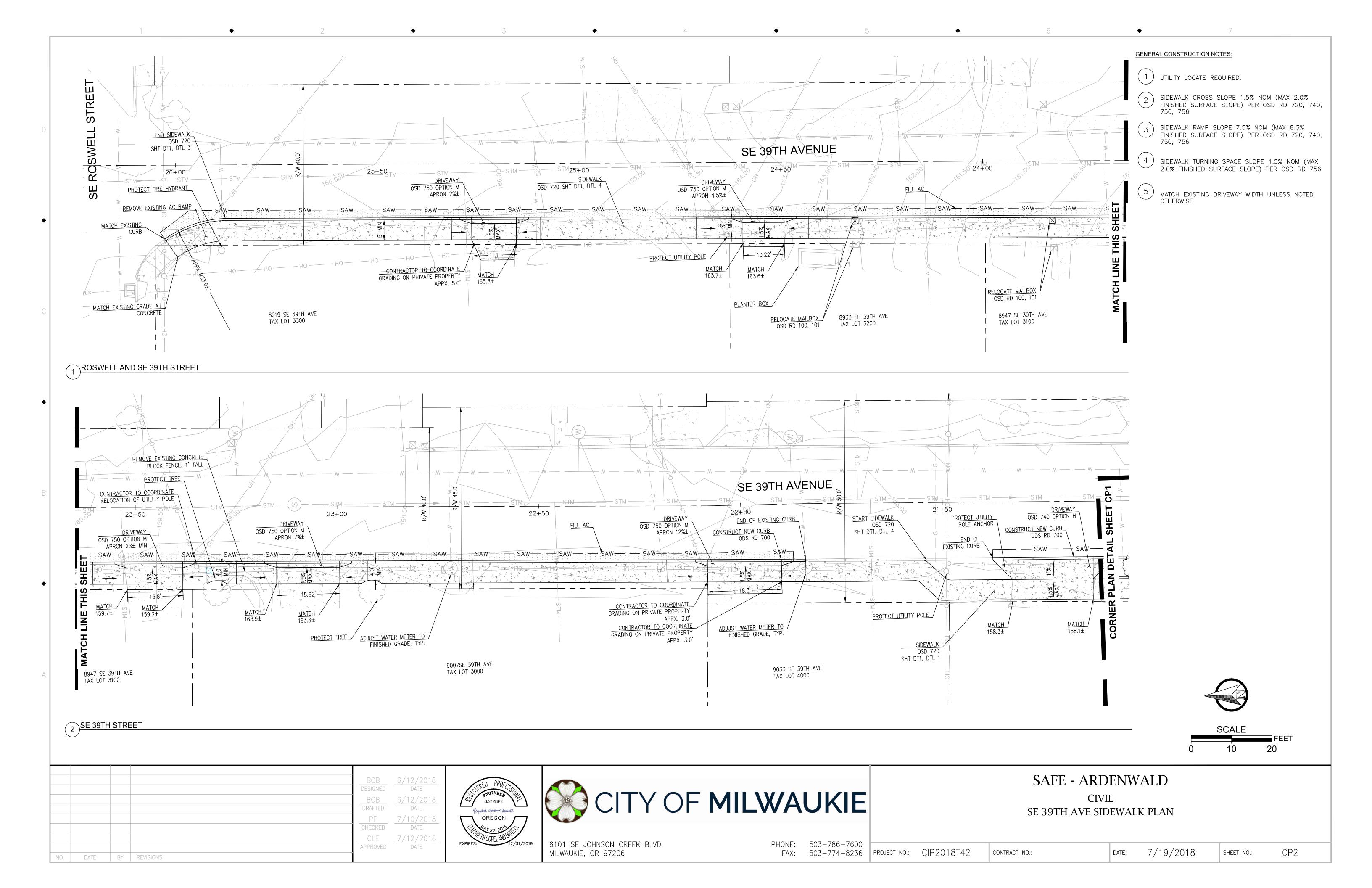
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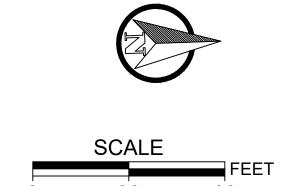


GENERAL CONSTRUCTION NOTES:

- CONSTRUCTION OF PATH SHALL NOT RESULT IN CLOSURE OF THE PATH WHILE SCHOOL IS IN SESSION.
- PRUNE TREES AND SHRUBS THAT ENCROACH INTO THE PATH PRIOR TO PAVING. REMOVE GROUNDCOVER AT EDGE OF PATH PRIOR TO PAVING.
- CONSTRUCT PATH WITH 3" KBI FLEXI-PAVE HD2000 OR 3" 3/8 INCH POROUS ASPHALT CONCRETE



1 PEDESTRIAN PATH



				BCB	6/12/2018 DATE
				BCB	6/12/2018 DATE
				PP	7/10/2018 DATE
				CLE	7/12/2018 DATE
				APPROVED	DATE
NO.	DATE	BY	REVISIONS		



MILWAUKIE, OR 97206

CITY OF MI	LWA	UKIE	
6101 SE JOHNSON CREEK BLVD.	PHONE:	503-786-7600	

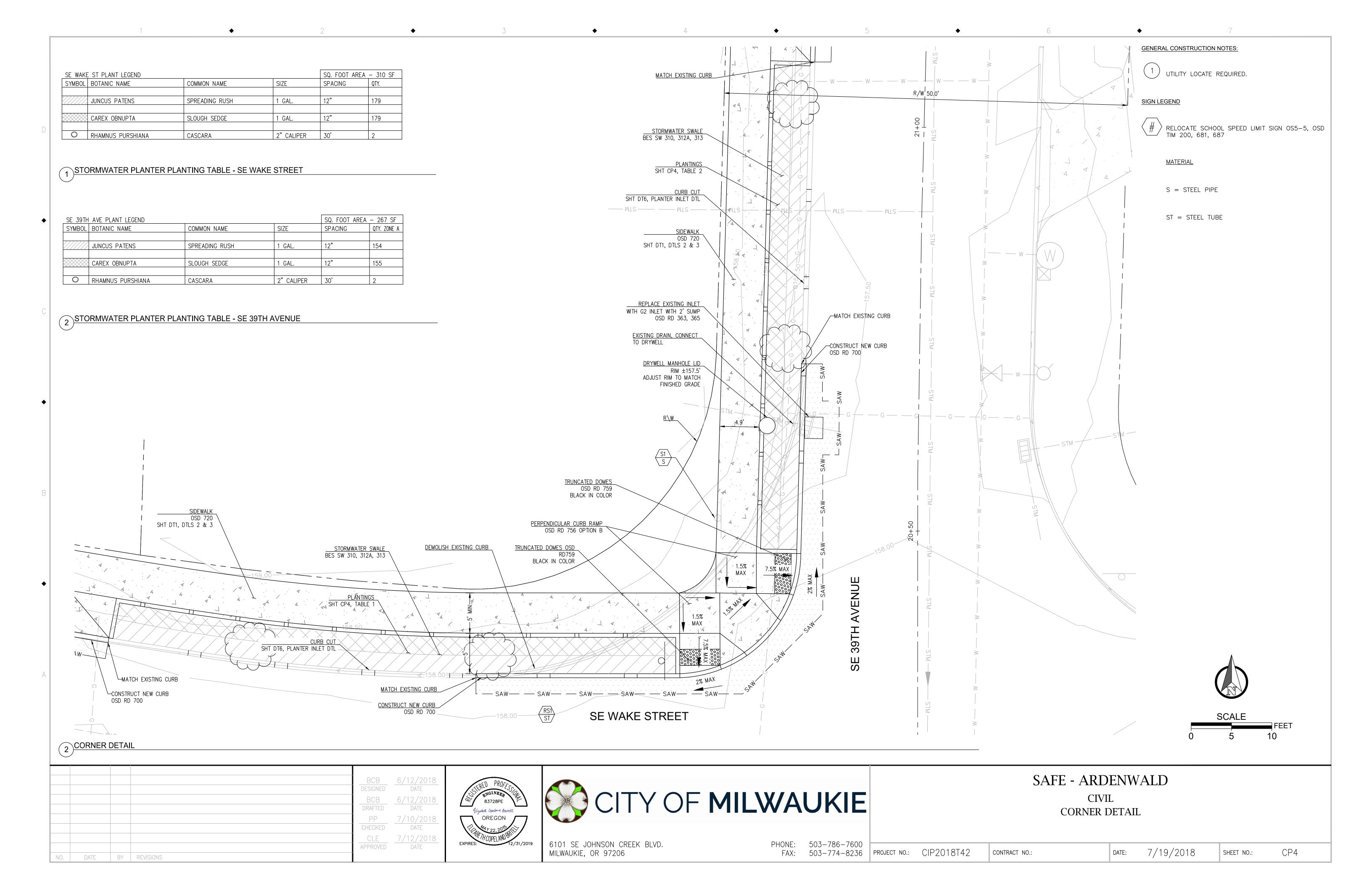
SAFE - ARDENWALD CIVIL PEDESTRIAN PATH PLAN

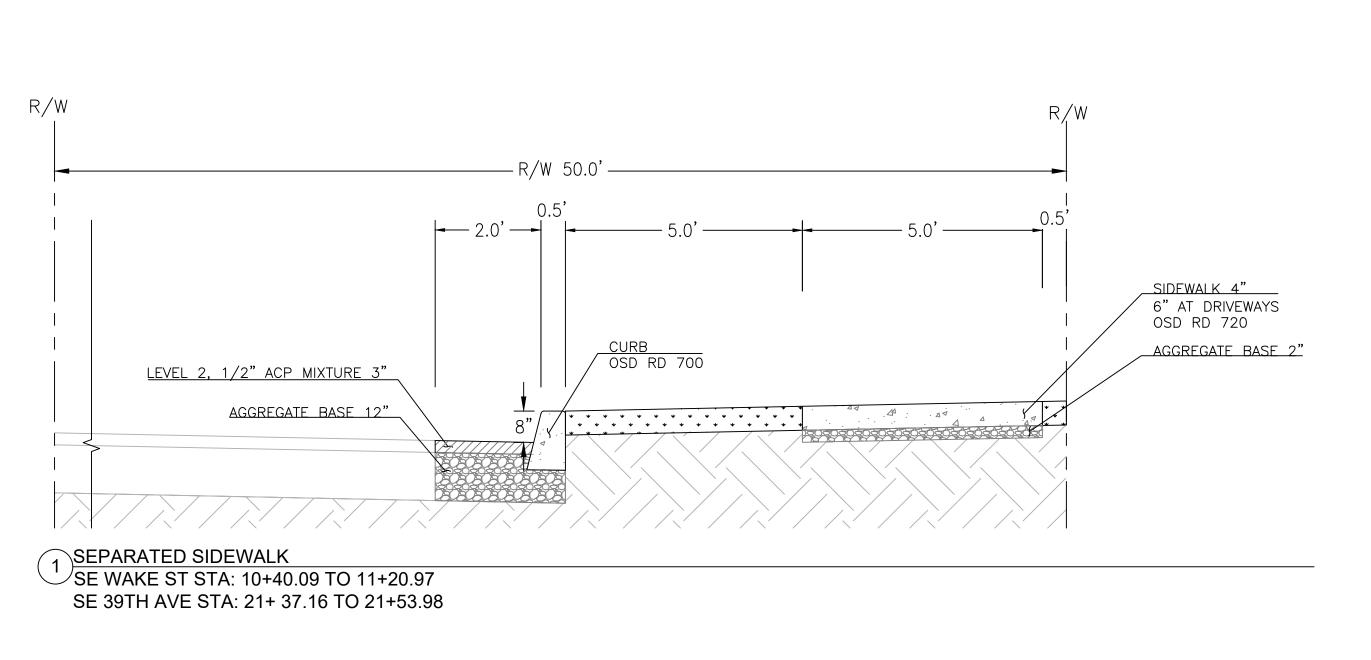
PHONE: 503-786-7600 FAX: 503-774-8236 PROJECT NO.: CIP2018T42

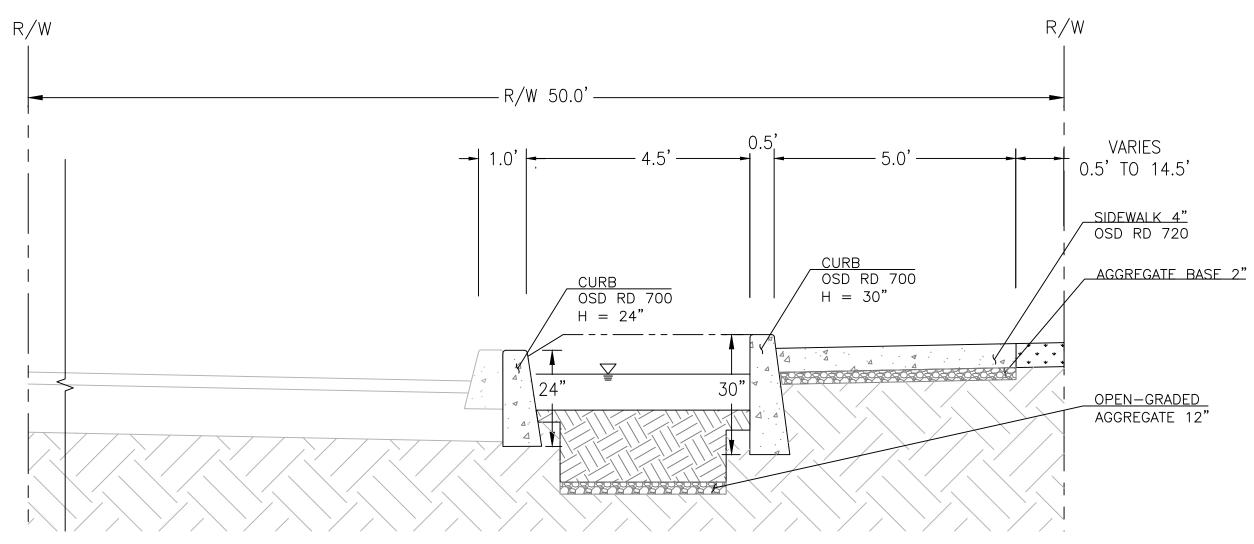
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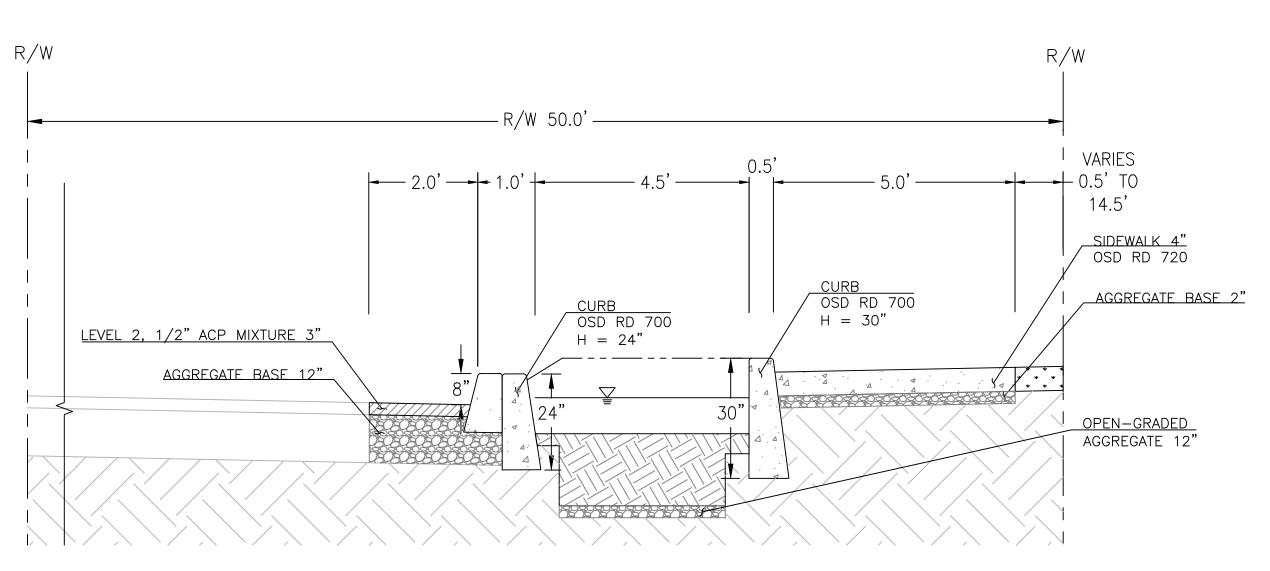
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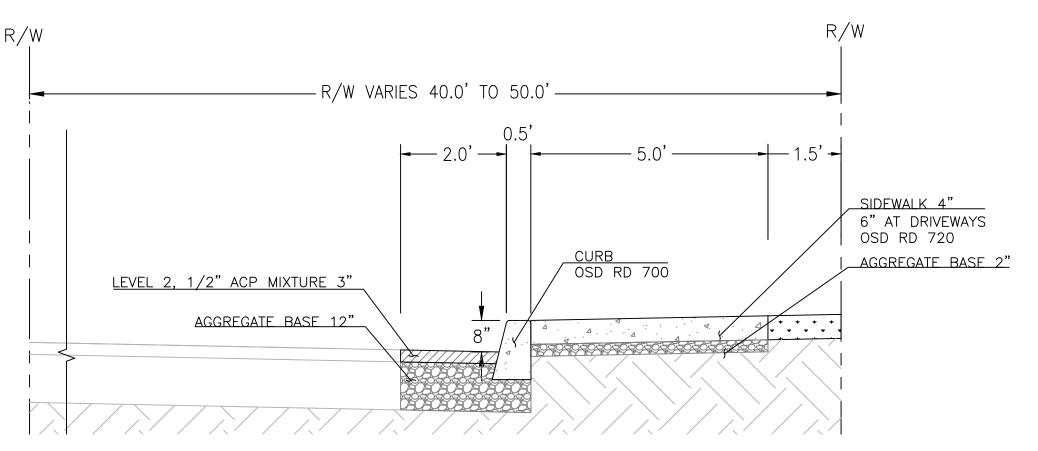




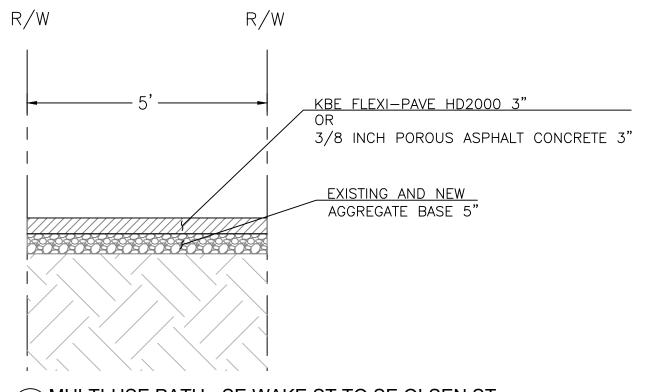
3 SEPARATED SIDEWALK - STORMWATER PLANTER SE WAKE ST STA: 11+41.36 TO 11+89.70 SE 39TH AVE STA: 20+70.49 TO 21+07.30



SEPARATED SIDEWALK - STORMWATER PLANTER SE WAKE ST STA: 11+89.70 TO 12+14.96 SE 39TH AVE STA: 20+47.15 TO 20+70.49



4 CURB LINE SIDEWALK SE 39TH AVE STA: 21+53.98 TO 25+88.57



MULTI-USE PATH - SE WAKE ST TO SE OLSEN ST

6/12/2018 DATE DESIGNED 6/12/2018 DATE DRAFTED 7/10/2018 DATE CHECKED CLE APPROVED 7/12/2018 DATE NO. DATE BY REVISIONS



CITYOF	MILWAUKIE
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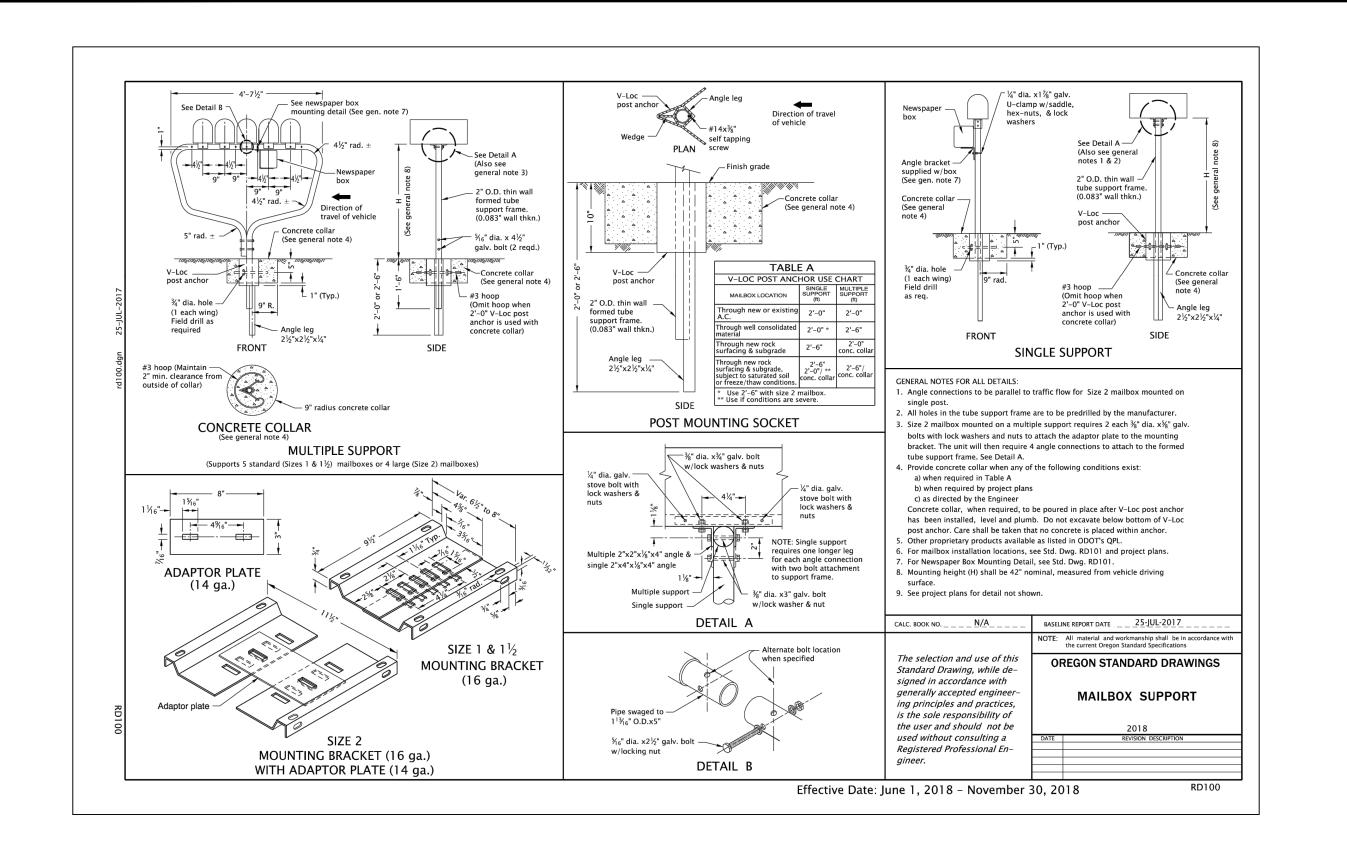
6101 SE JOHNSON CREEK BLVD. MILWAUKIE, OR 97206

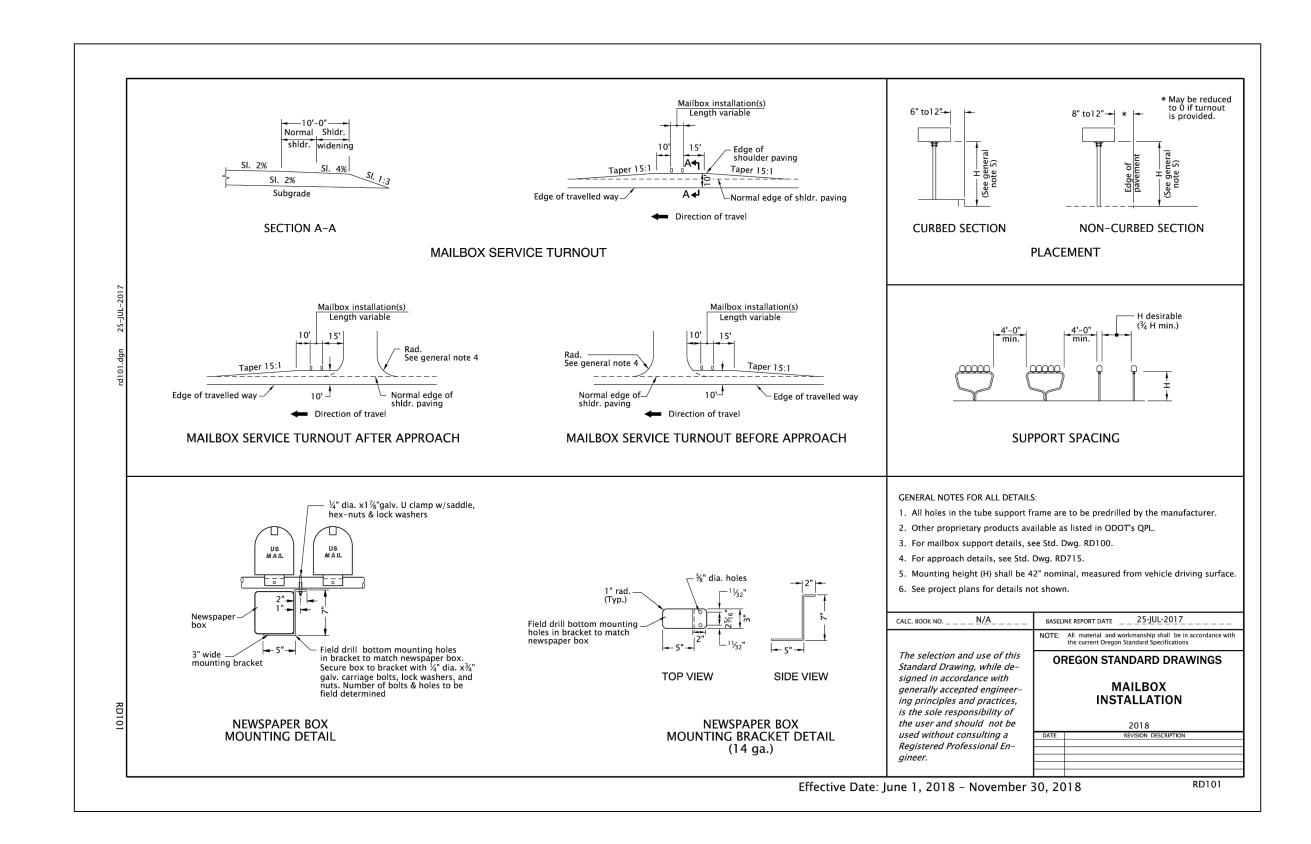
PHONE: 503-786-7600 FAX: 503-774-8236

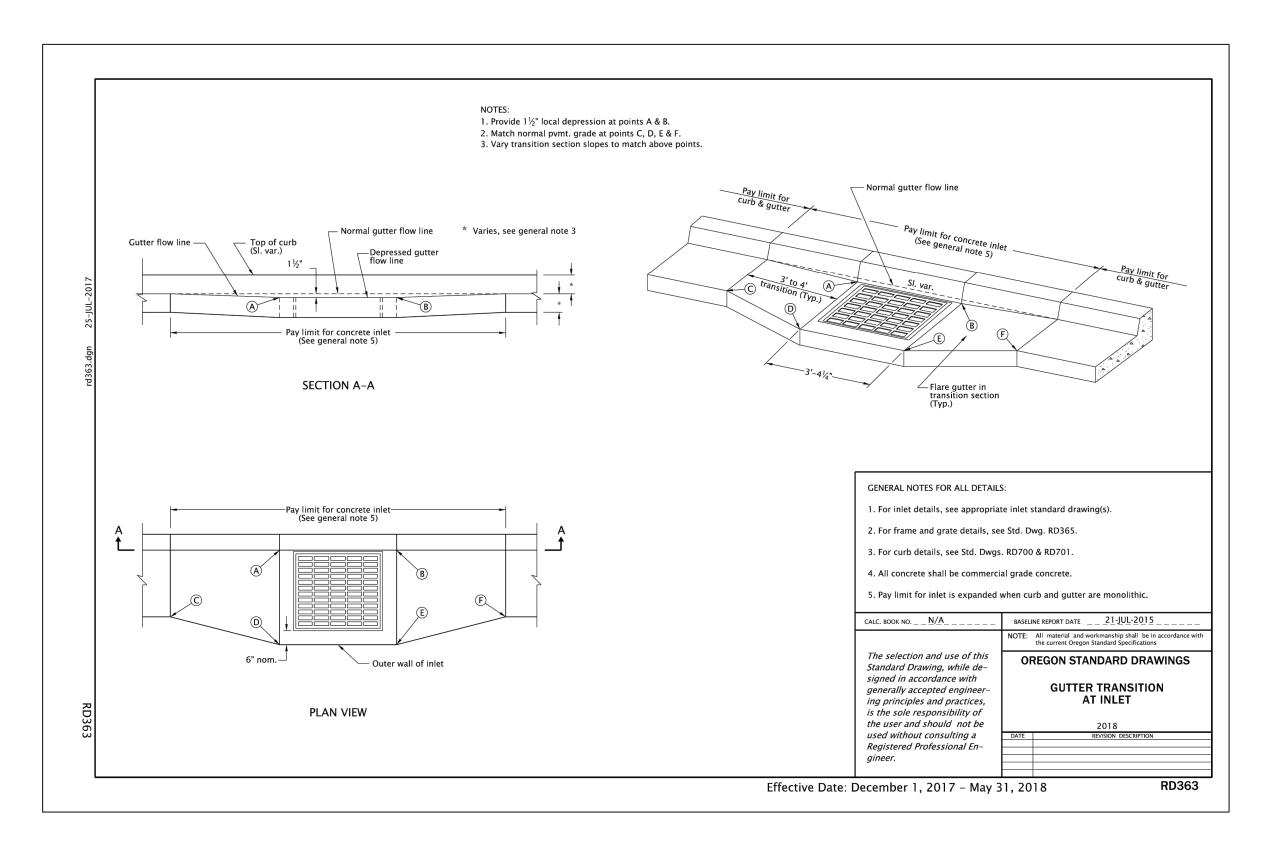
SAFE - ARDENWALD CIVIL SECTIONS

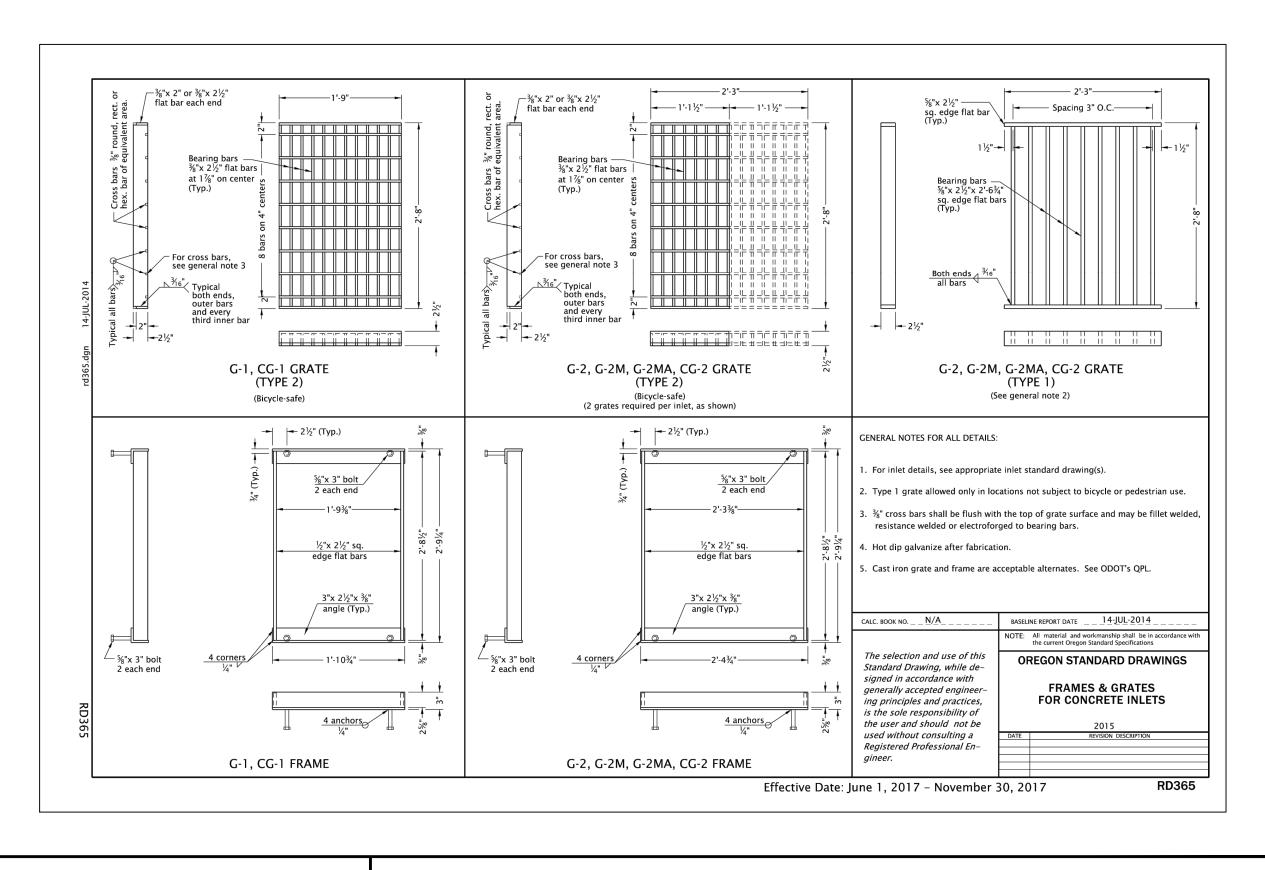
DT1

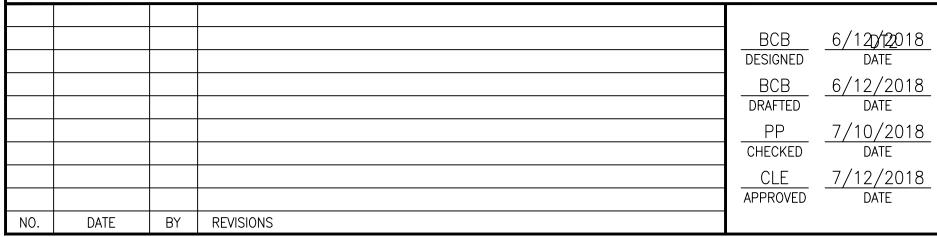
PROJECT NO.: CIP2018T42 7/19/2018 CONTRACT NO.: SHEET NO.:













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SAFE - ARDENWALD

CIVIL

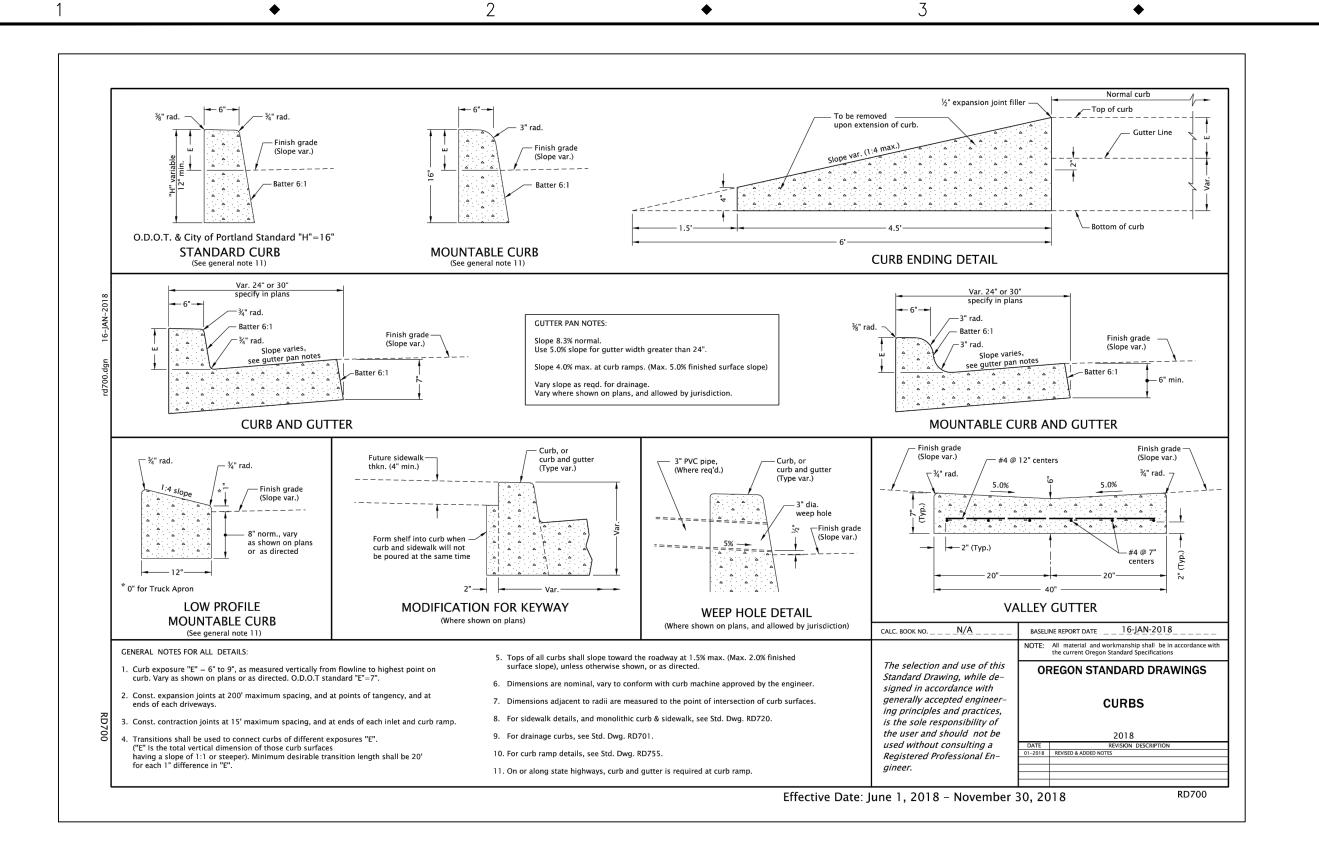
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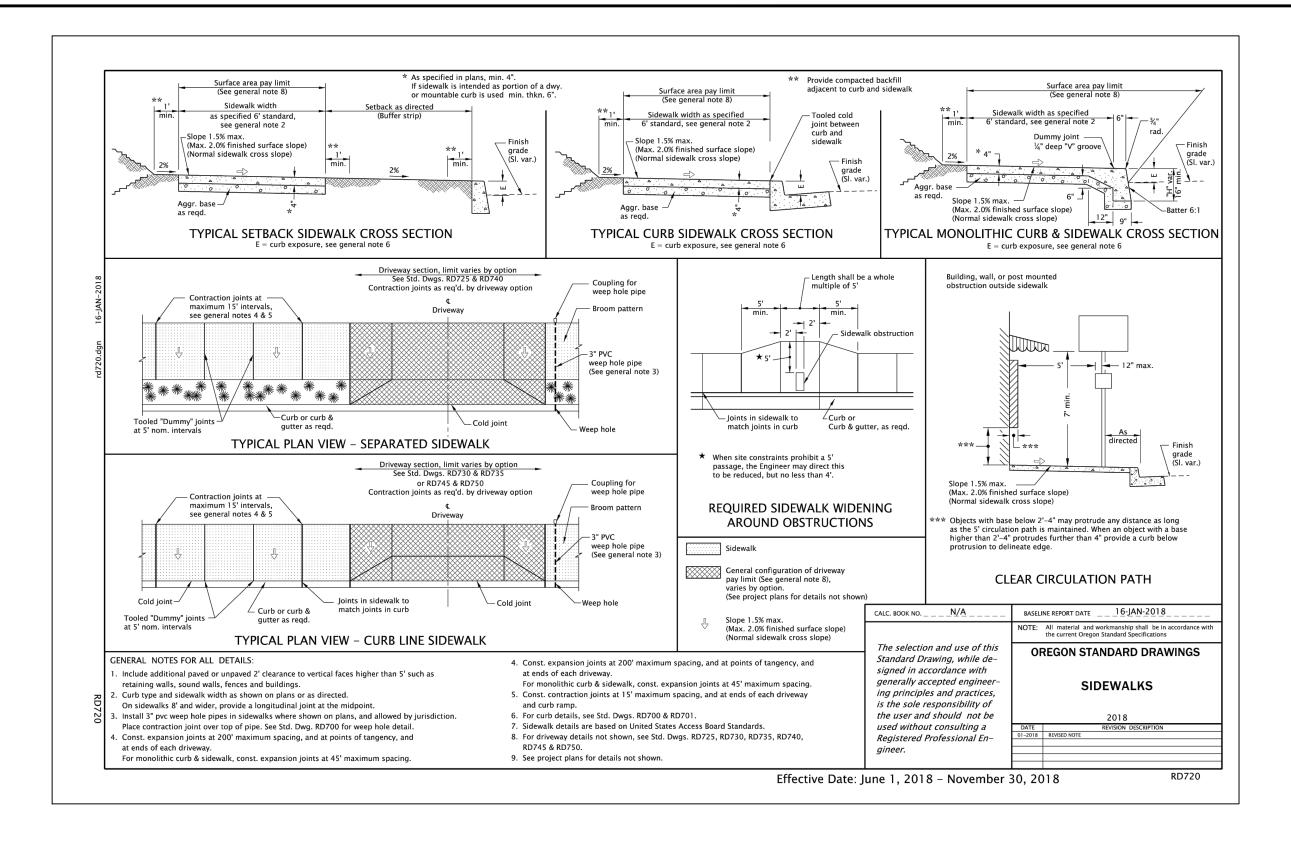
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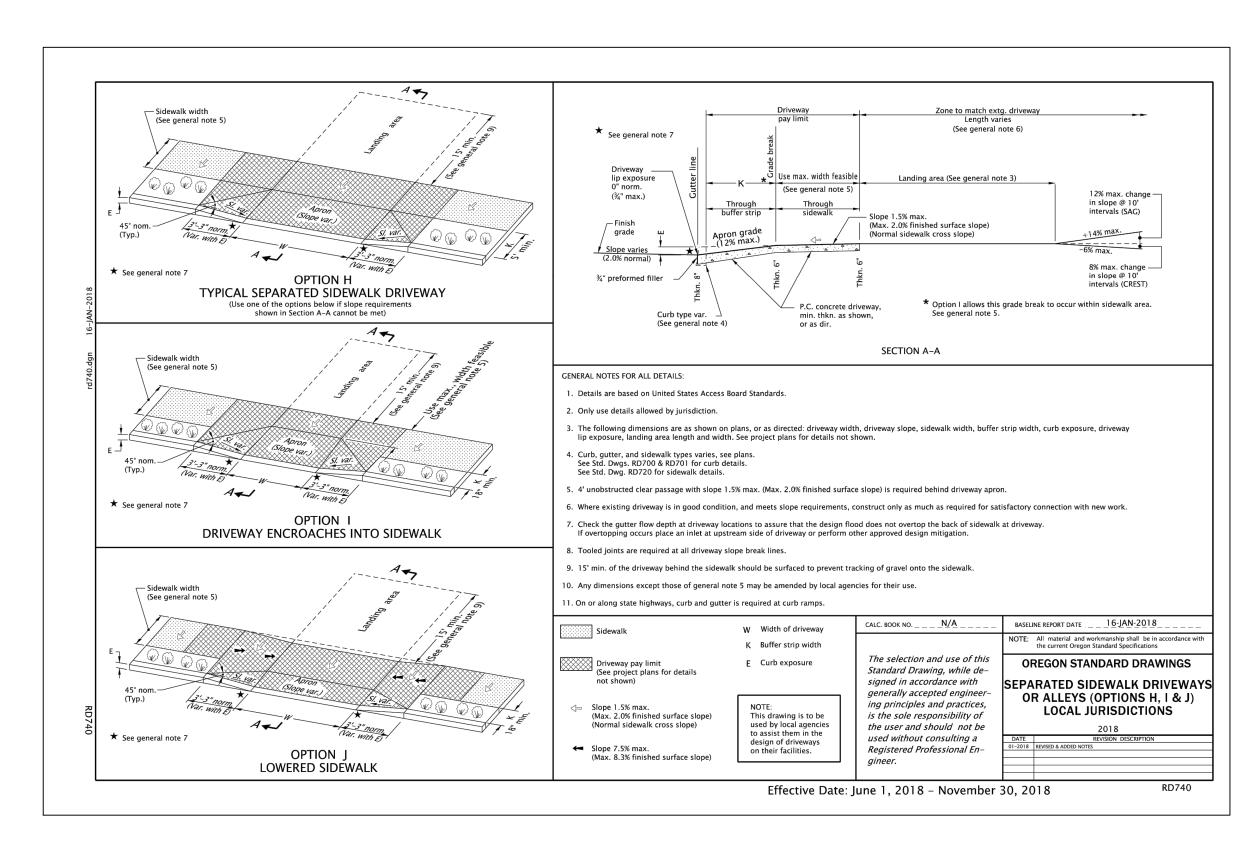
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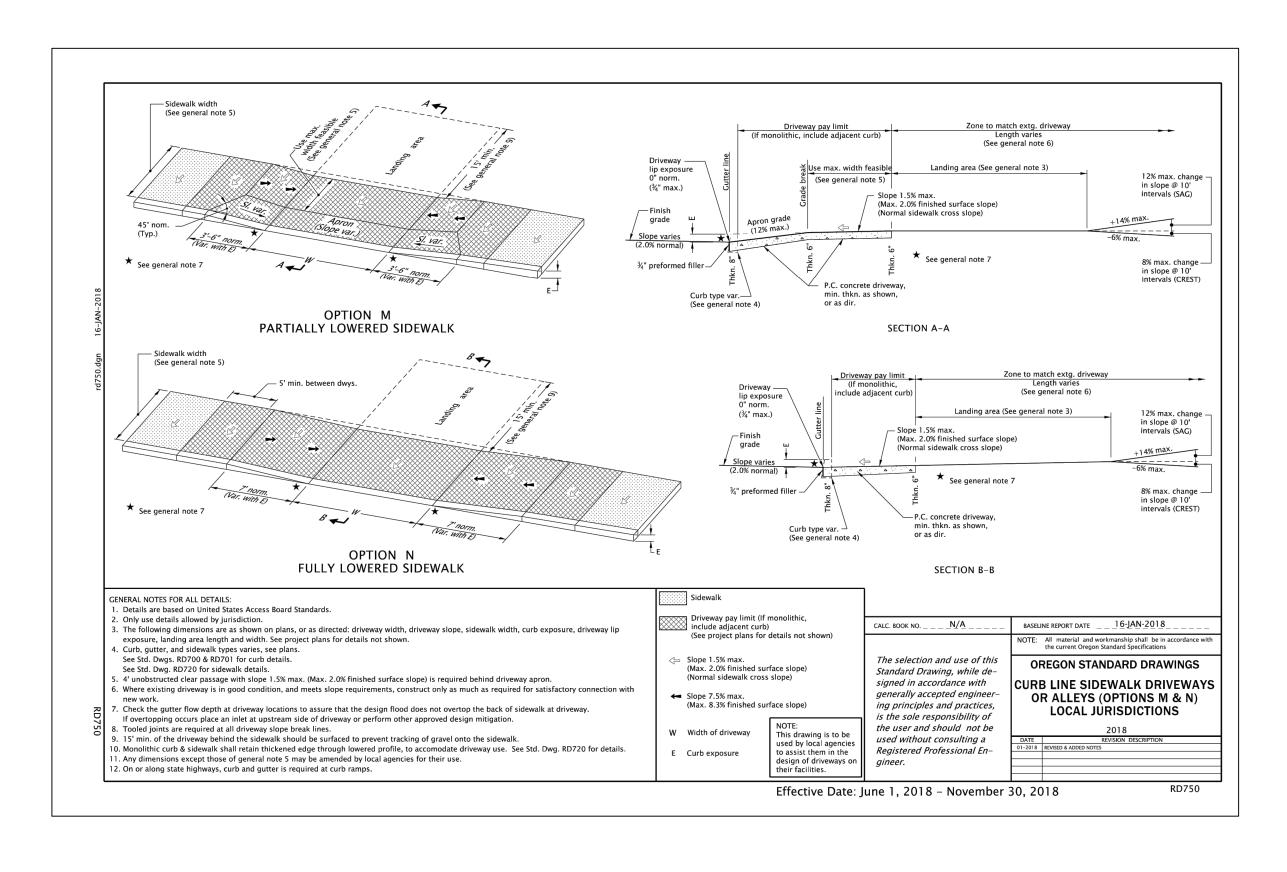
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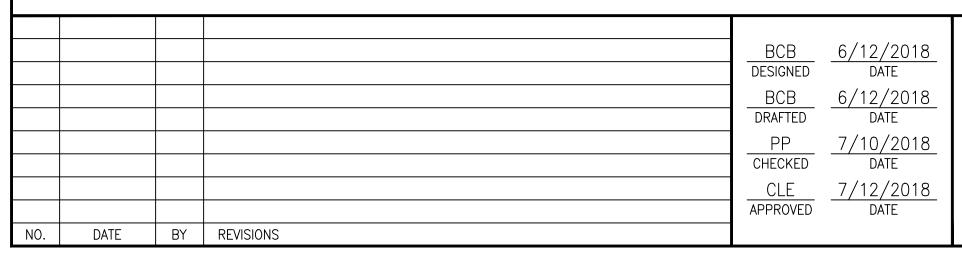
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SAFE - ARDENWALD

CIVIL

DETAILS

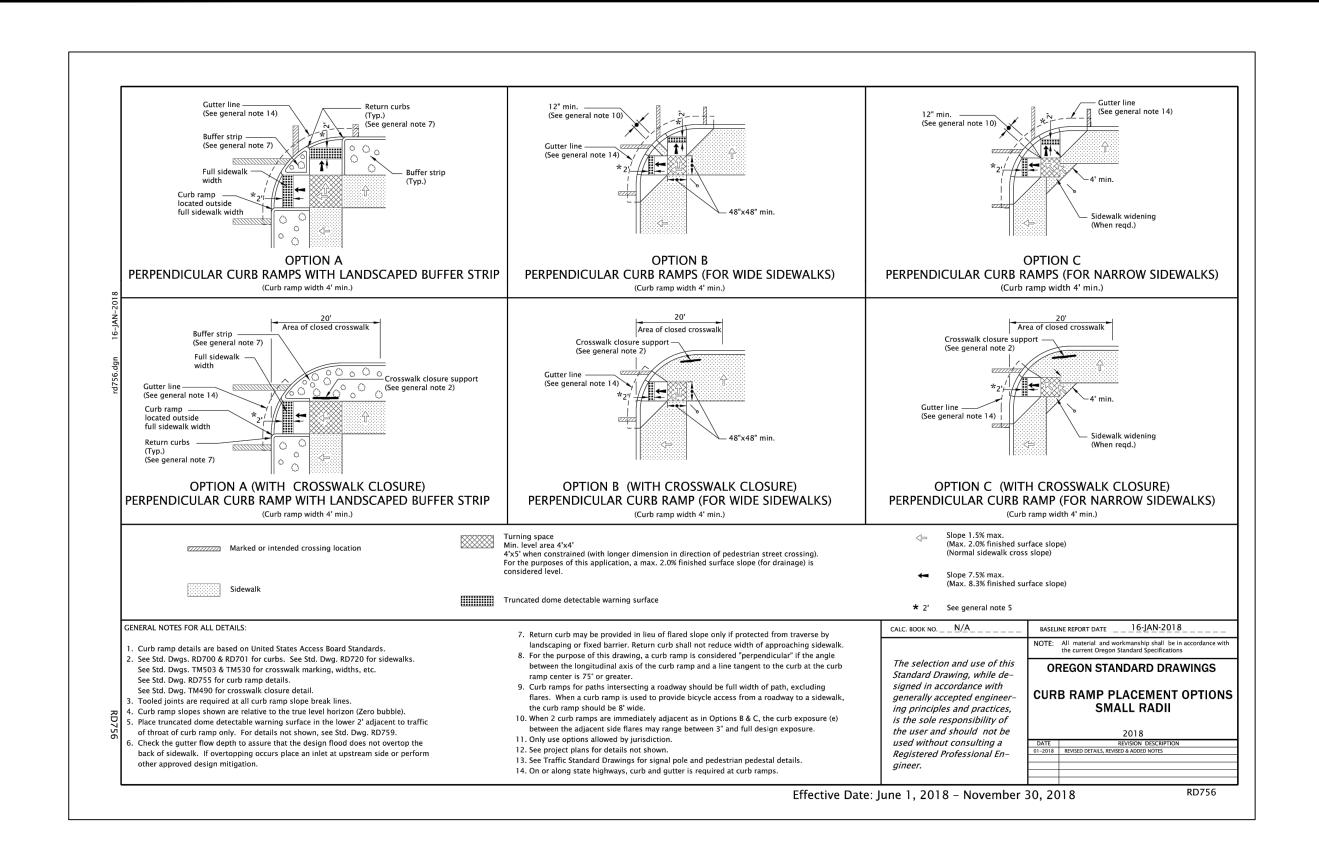
6101 SE JOHNSON CREEK BLVD. MILWAUKIE, OR 97206 PHONE: 503-786-7600 FAX: 503-774-8236

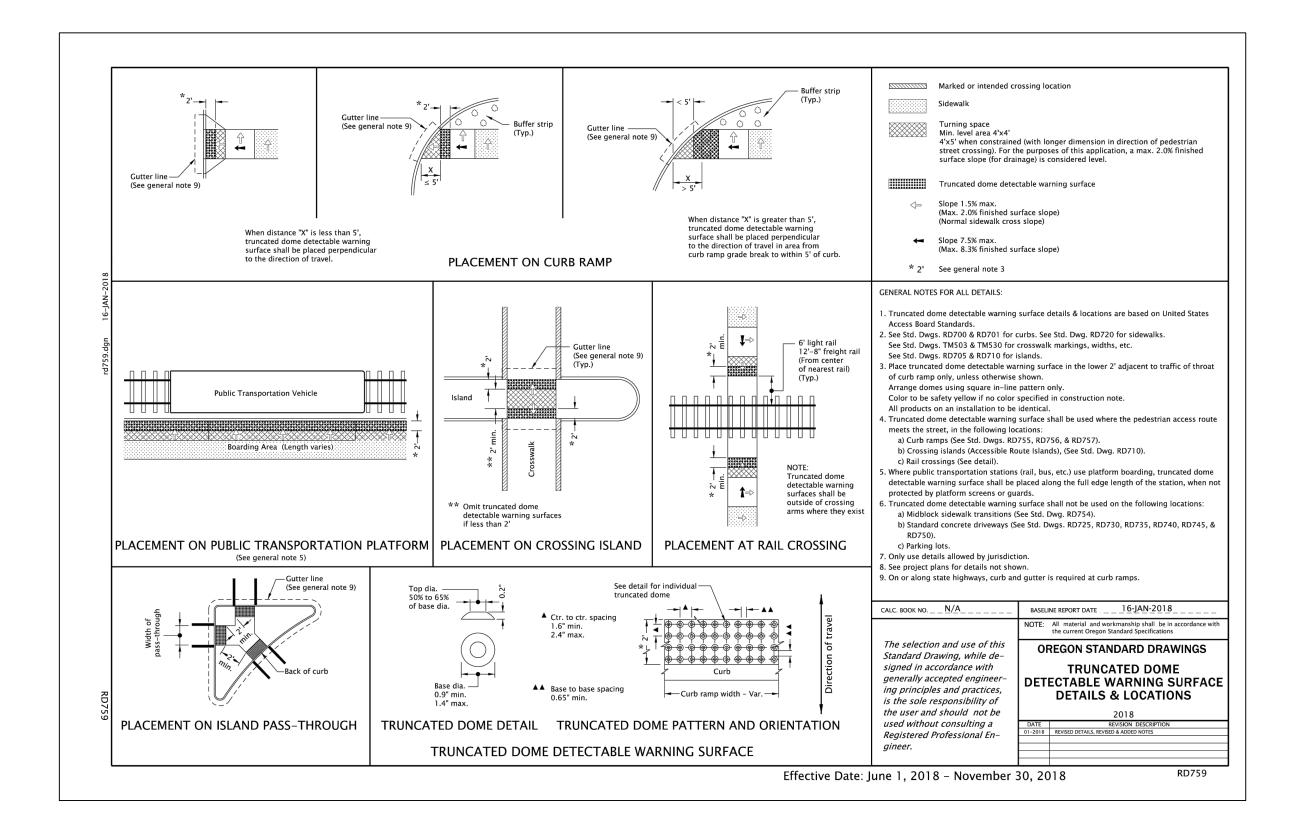
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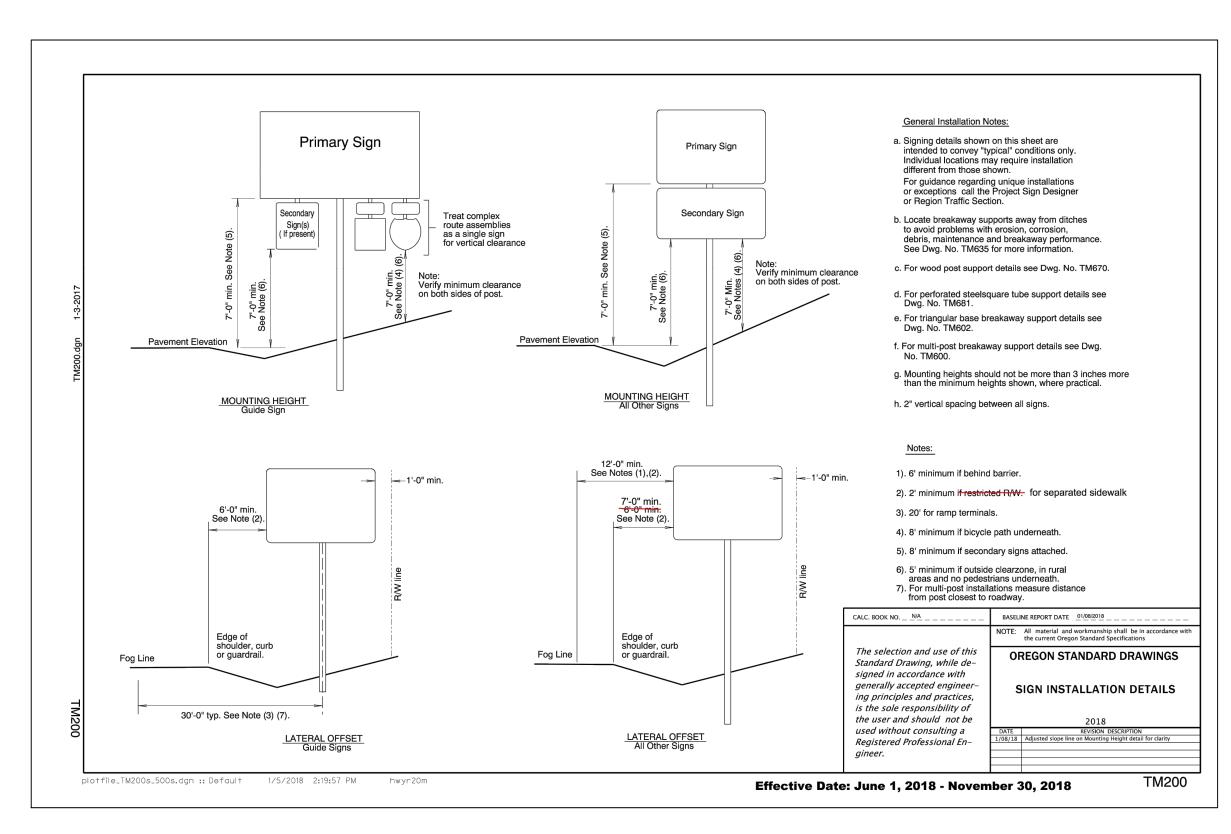
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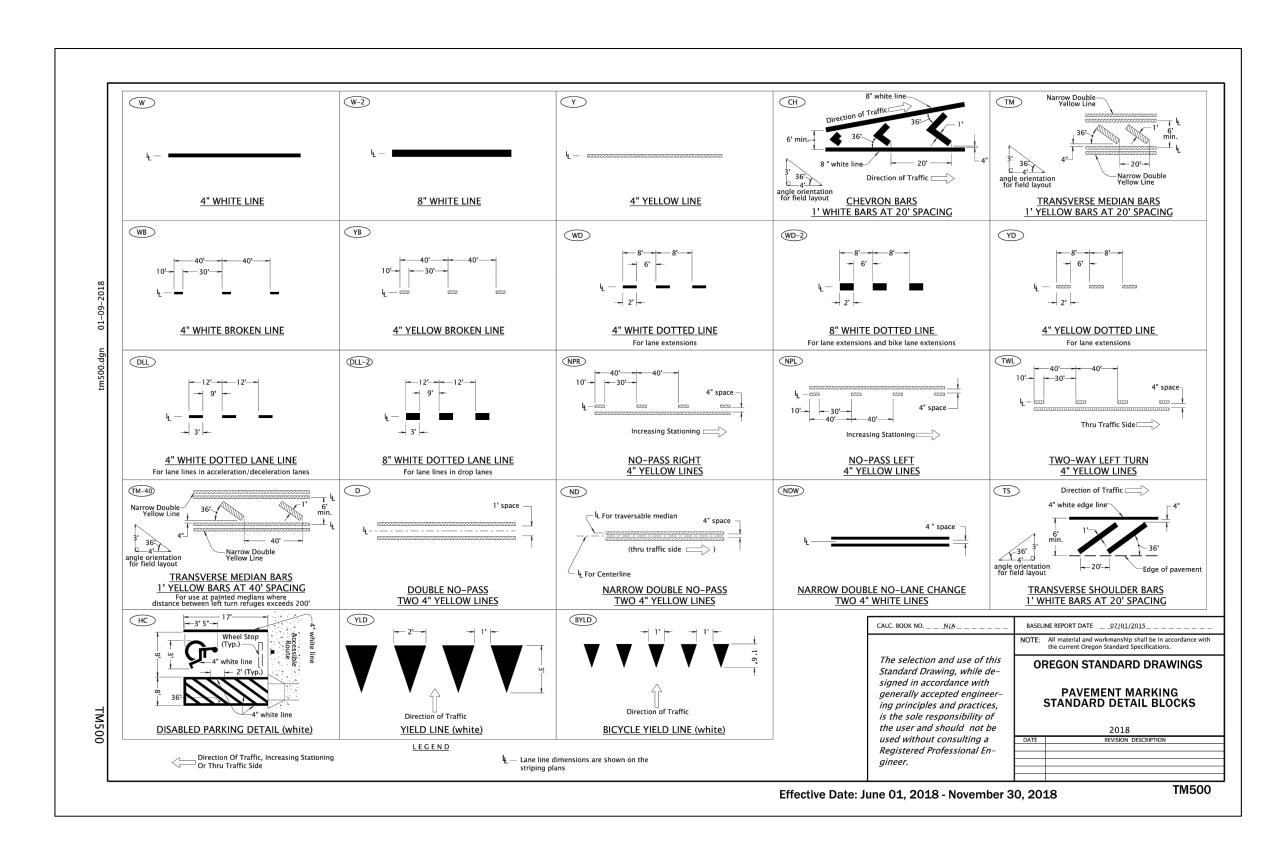
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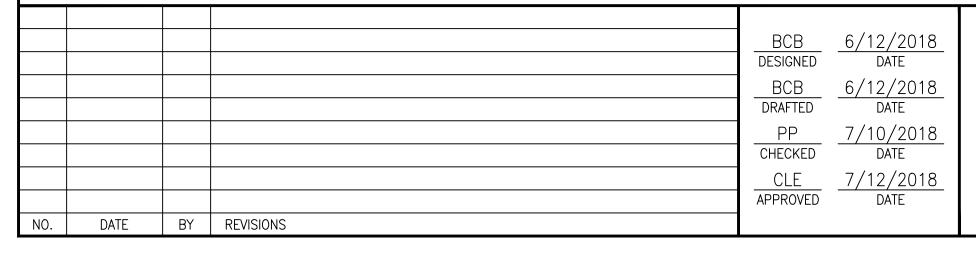
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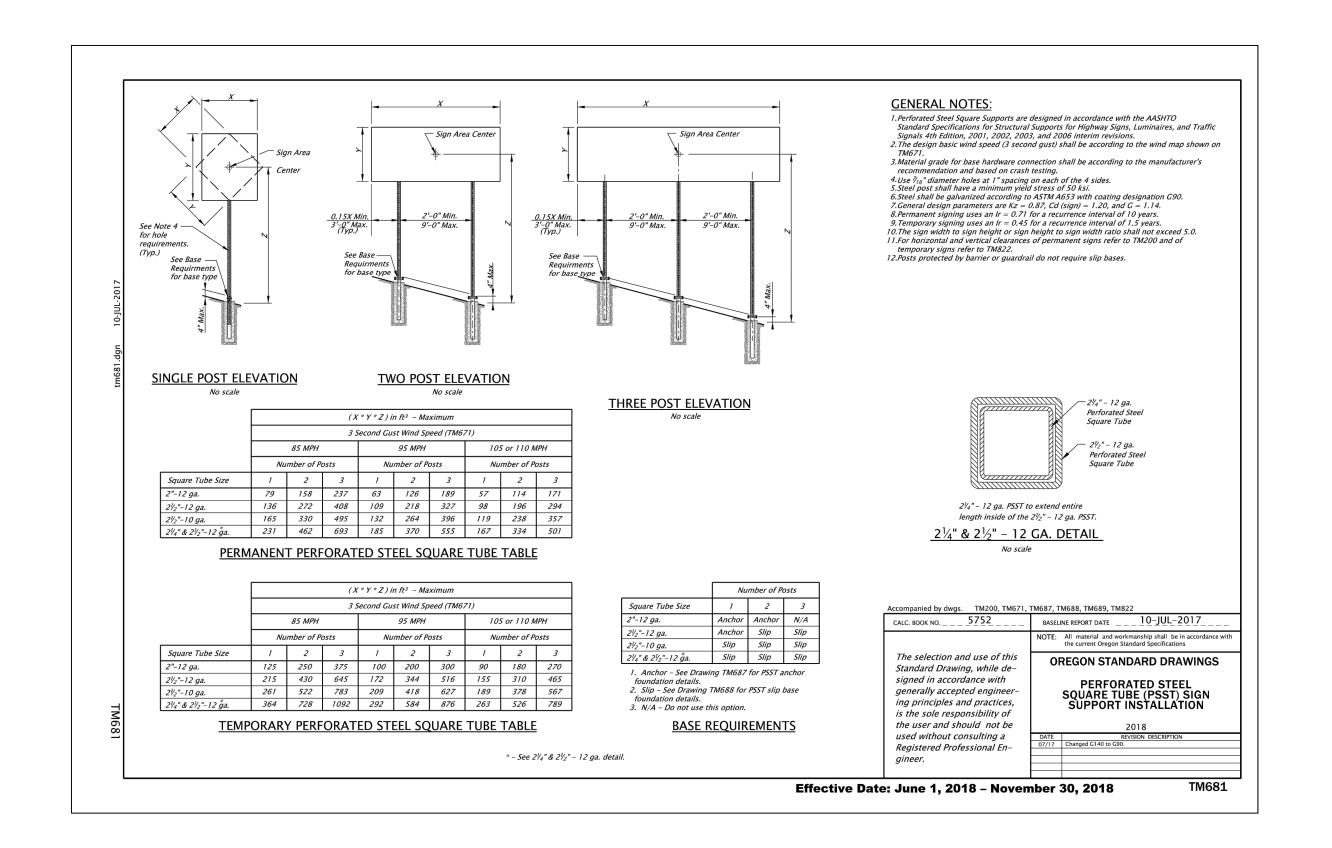
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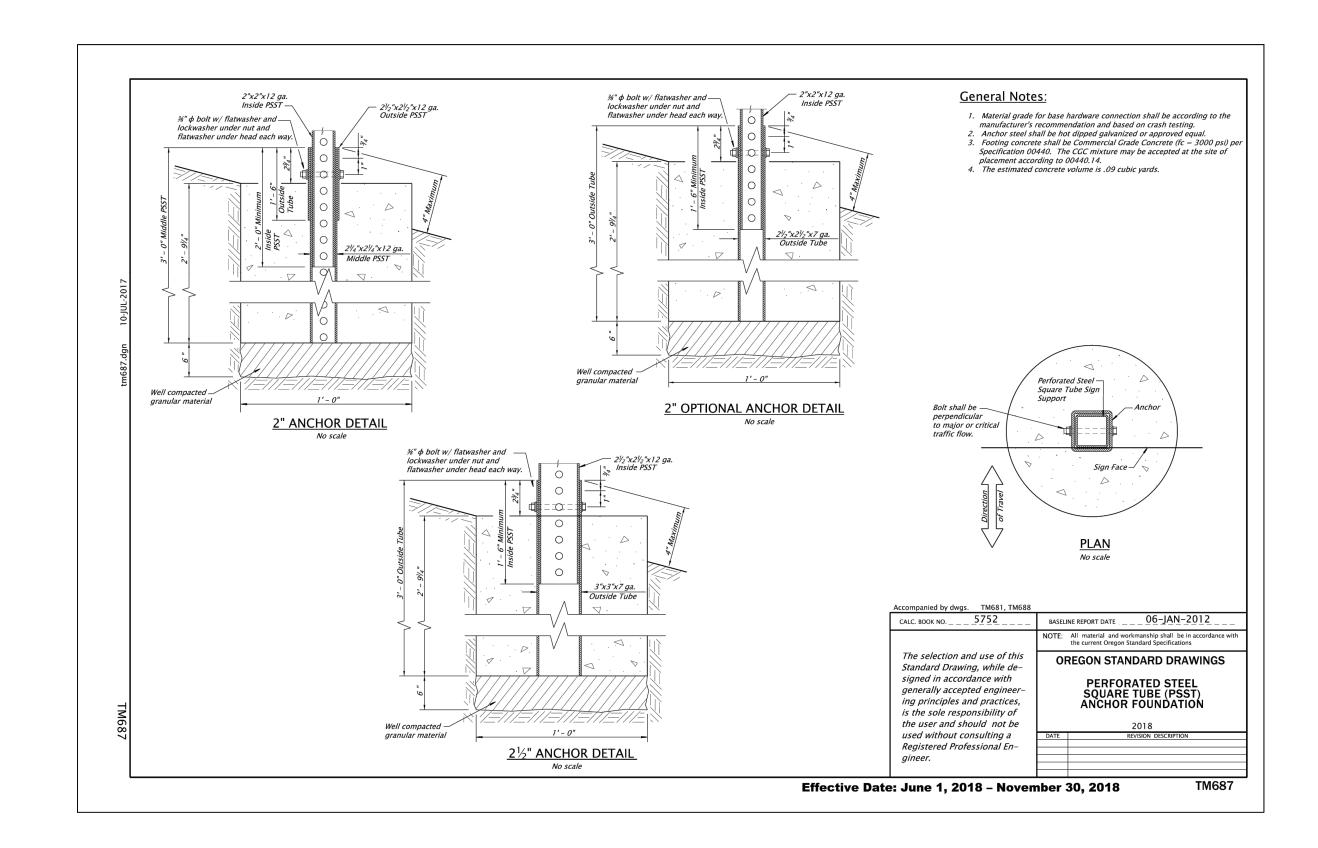
PROJECT NO.: CIP2018T42 CONTRACT NO.:

DATE: 7/19/2018

SHEET NO.: DT

DT4





				BCB	6/12/2018
				DESIGNED	DATE
				BCB	6/12/2018
				DRAFTED	DATE
				PP	7/10/2018
				CHECKED	DATE
				CLE	7/12/2018
				APPROVED	DATE
NO.	DATE	BY	REVISIONS		



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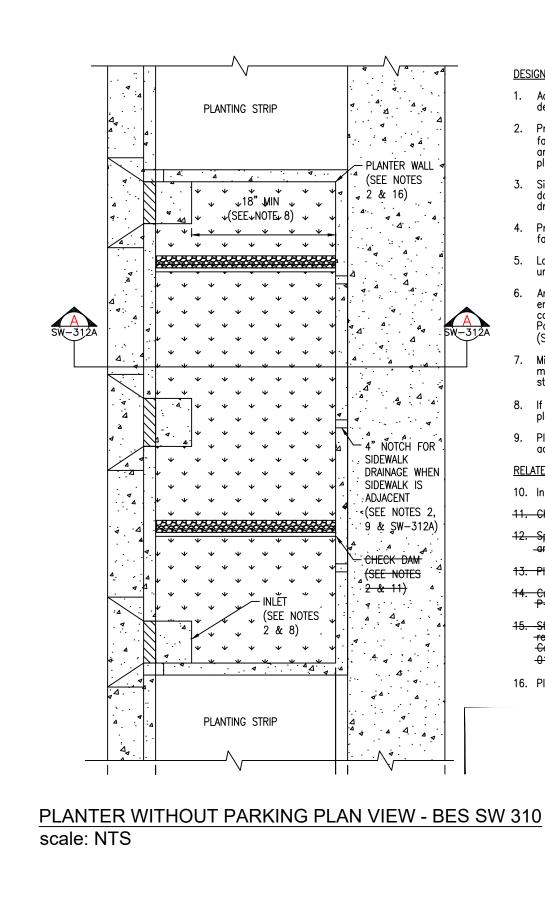
PHONE: 503-786-7600 FAX: 503-774-8236

SAFE - ARDENWALD CIVIL DETAILS

PROJECT NO.: CIP2018T42 CONTRACT NO.: 7/19/2018

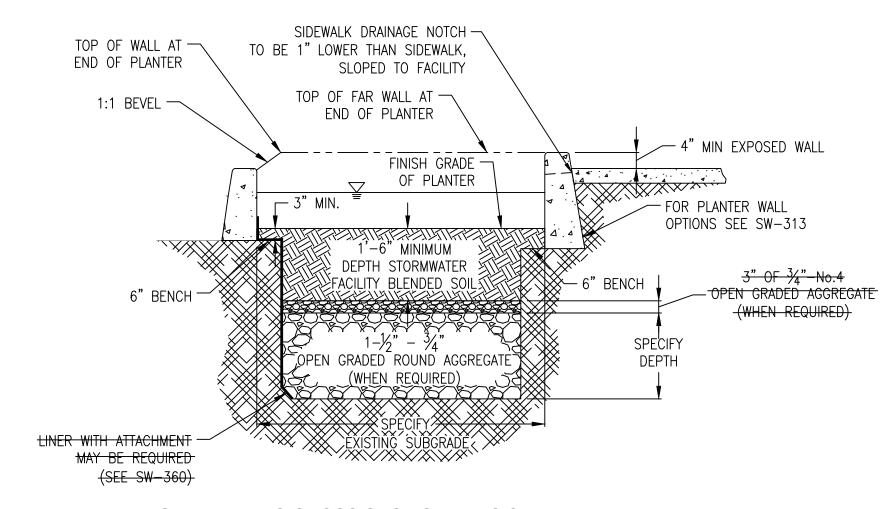
SHEET NO.:

DT5

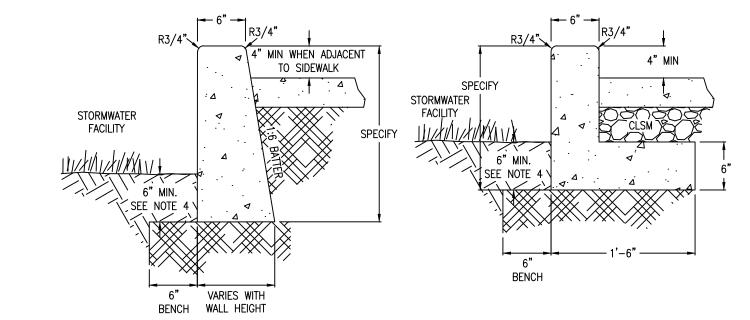


DESIGNER INFORMATION:

- 1. Adapt this plan view example to your engineered
- design. Maximize surface storagé. Provide beginning and ending stations for each facility. Provide stationing and/or dimensions and elevations at each inlet, outlet, check dam,
- planter corner and sidewalk notches. Sidewalk elevation must be set above check dam and inlet elevations to allow overflow to
- 4. Proposed utility lines to be located out of
- Longitudinal slope of planter matches the road, unless otherwise specified.
- 6. Area and Depth of facility are based upon engineering calculations and right—of—way constraints. See Chapter 2 of the City of Portland Stormwater Management Manual
- Minimum interior planter width is 3ft. A minimum of 4 feet is required for planters with
- 8. If less than 18" between splash pad and planter wall, extend pad to wall.
- 9. Place one notch at low point of sidewalk. Space additional notches approximately 6ft apart.
- RELATED DETAILS AND RESOURCES:
- 10. Inlet details SW-331 and SW-332
- 11. Check Dam details SW-342 and SW-343 12. Special requirements for water lines, meters, and fire hydrants (see SW-316B)
- 13. Planter Planting Template (see SW-315)
- 14. Curb and Gutter per PBOT standard drawing P=540
- 15. Stormwater facility construction and blended soil requirements see City of Portland Standard Construction Specifications, sections 00415 and
- 16. Planter wall detail (see SW-313)



PLANTER WITHOUT PARKING CROSS SECTION - BES SW 312A scale: NTS



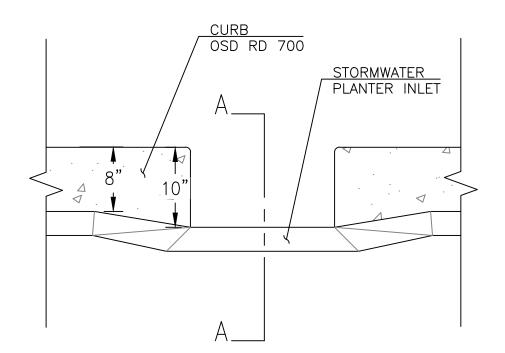
CONSTRUCTION NOTE

Finish all exposed concrete surfaces. See Specs.

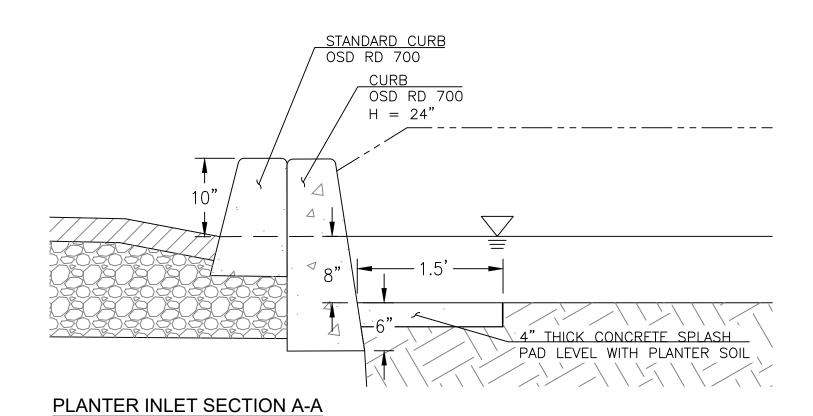
DESIGNER INFORMATION

- 1. Special design considerations or structural review may be required for longer planter wall spans. Steel reinforcement or additional concrete check dams may be needed for stability.
- 2. Specify one of the above planter wall options based on site conditions.
- Maintain 1:6 batter for walls and 4" minimum from top of wall to top of sidewalk.
- 4. If a liner is used, See SW-360.

PLANTER WALL DETAIL - BES SW 313 scale: NTS



PLANTER INLET scale: NTS



				BCB	6/12/2018
				DESIGNED	DATE
				BCB	6/12/2018
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				CLE	7/12/2018
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scale: NTS



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PROJECT NO.: CIP2018T42

CONTRACT NO.:

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DETAILS

7/19/2018 SHEET NO .:

DT6